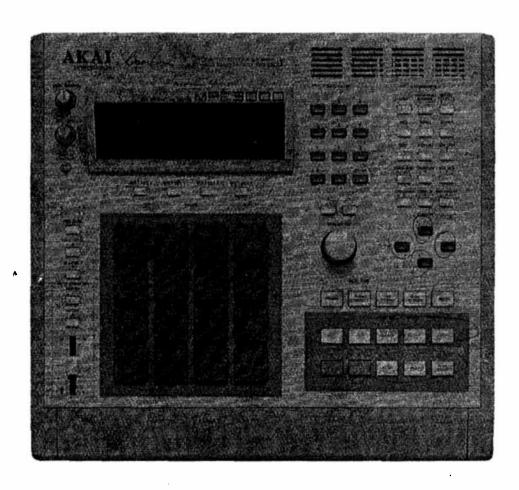
AKAI SERVICE MANUAL



MIDI PRODUCTION CENTER

MODEL MPC3000

★ SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

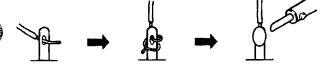
- 1. Parts identified by the Δ (*) symbol are critical for safety. Replace them only with the parts number specified.
- In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with the specified replacements.

Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.

- 3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- Use specified insulating materials for hazardous live parts.

Note especially:

- 1) Insulation Tape
- 2) PVC tubing
- 3) Spacers (insulating barriers)
- 4) Insulation sheets for transistors
- 5) Plastic screws for fixing micro switches
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap the ends of the wires securely around the terminals before soldering.



- Make sure that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
- Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.

The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resistor of 1500 ohms paralleled with a 0.15 μF capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC.

The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 M ohms.

PRECAUTION FOR LITHIUM BATTERY

The lithium battery may explode when heated excessively. [OBSERVE THE FOLLOWING WHEN REPLACING]

- · Replace with the same make and type only.
- Use soldering iron in "recommended way" only.
- Place battery in correct polarity.
- Do not short the terminals.
- · Do not charde battery.
- Do not dispose of battery in fire.





[DANGER]

[RECOMMENDED WAY]

★ INFORMATIONS

SYMBOLS FOR PRIMARY DESTINATION

Unit destinations are indicated with letters as shown below.

Symbols	Principal Destinations	
Α	U.S.A	
В	U.K	
C	Canada	
E	Europe (except U.K)	
لد	Japan	
S	Australia	
V	Germany	
Ū	Universal Area	
Ϋ́	Custom version	

★ SPECIFICATIONS

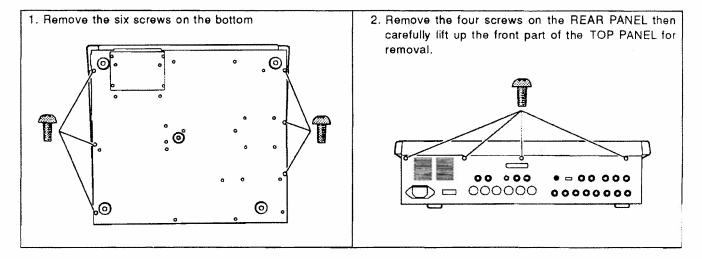
Sampling rate 44.1kHz (frequency response: Ste	igital sampling input S/PDIF tereo output level 6 dBm/600 ohms
20 Hz - 20 kHz) Le	leten outbut level a apin/and diffus
20 112 20 1112)	evel of 8 individual
	outputs 6 dBm/600 ohms
	ync/Trigger input
	level 0.5 Vp-p level (with input control
expandable to 16 MB (188.3 seconds mono or 94.1 seconds	at maximum)
	ync output level 2.5 Vp-p/600 ohms
	IIDI inputs
	1DI outputs
	CSI port 1 (25-pin D-sub connector)
	leadphone output 1
,	oot switch inputs 2 (independently assignable)
Number of sound	
programo E-1	ieneral
-	Pisplay 320 character (240 x 64 dot
per program 64	graphic) LCD
Simultaneous voices 32	lisk drive 3.5 inch HD (1.44 MB formatted)
	PU V53/16 MHz
	limensions
	Veight 9 kg
Resolution 96 parts per 1/4-note (ppq)	ower requirements AC 100 V, 50/60 Hz for Japan
Sequences 99	AC 120 V, 60 Hz for U.S.A. and
Tracks per sequence 99	Cana da
MIDI output channels 64 (16 channels x 4 output ports)	AC 220 - 240 V, 50 Hz for Europe
Song mode	Power consumption 27 W for Japan
Drum pads	40 W for other countries
Drum pad banks 4	
	Accessories
	Standard accessories
(optional). SMPTE frame rates	3.5 inch disk x 4 (Disk #1 to #4 : Drum sound
supported are 24, 25, 29.97 drop	data)
	AC cordx 1
	Operator's manual x 1
Rear Panel Inputs/Outputs	
	Optional accessory
HI gain58 dBs/45 k ohms	EXM3008(Memory Expantion Board)
MID gain38 dBs/45 k ohms	IB-CRT (Interface Board for external VGA monitoring)
LO gain18 dBs/45 k ohms	I-0055 (SMPTE timecode reading IC)

0dBs = 0.775 V_{RMS}

* For improvement purposes, specifications—Id design are subject to change without notice.

I. DISASSEMBLY

In case of trouble, etc., necessitating dismantling, please dismantle in the order shown in the illustrations. Reassemble in the reverse order.



II. PRINCIPAL PARTS LOCATION

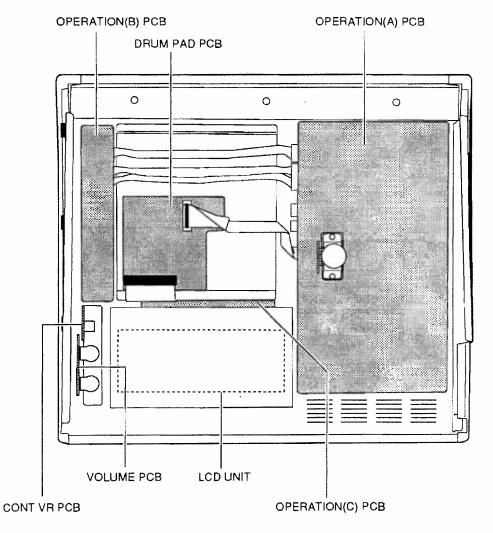


Fig. 2-1 Reverse side of the TOP PANEL BLOCK

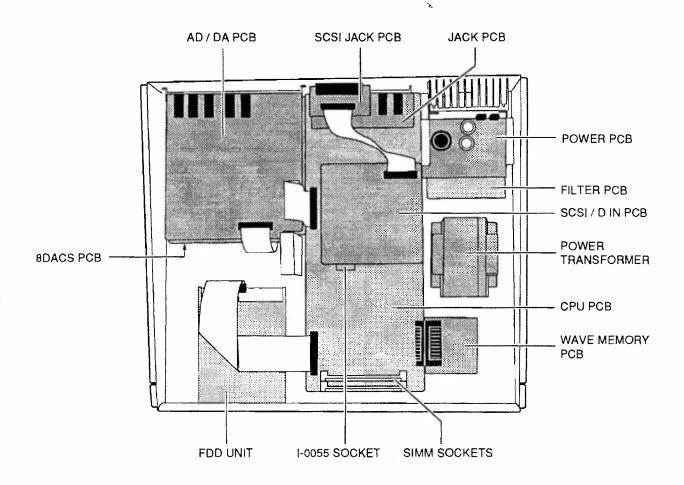


Fig. 2-2 Top view of the chassis

ATTENTION

- 1. When placing an order for parts, be sure to list the Part No., Model No. and the description of earch part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
- 2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
- 3. Since the parts shown in Parts List or Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

- 1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
- 2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
- 4. How to read the Parts List.
 - a) Mechanism Block

2. HEAD BASE BLOCK

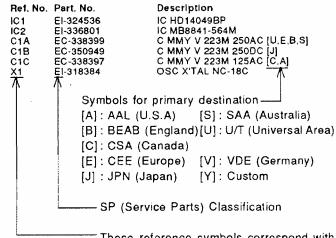
Ref. No. Part. No. Description HEAD BASE BLOCK BH-T2023A320A HEAD R/P PR4-8FU C HP-H2206A010A PAN20×03STL CMT 75-477876 ZS-536488 BID20×08STL CMT ZG-402895 SP (Service Parts) Classification

SP CS ANGLE ADJUST

This number corresponds with the individual parts index number in the figure.

b) PC Board

2. MAIN PC BOARD



These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No, listed at right of Part No.

WARNING

▲ (*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

▲ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCU-TITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	BA-379695J1	PC PAD SENSOR	56	El-321606	IC LM393N
2	BB-428036J	FLOPPY DISK FD-235HF-3300	57	El-413120J	IC L7A1045 L6028 DSP-A
3	★ BT-378272	TRANS POW L4003 C,A	58	El-414848J	IC MB8116400-70PZ-G
3	+ 01-3/02/2	[C,A]	59	El-412247J	IC MB814400-80L PSZ-G
4	* BT-378271	TRANS POW L4003 J	60	El-372103	IC MB89254
4	4 01-3/02/1	[J]	61	El-425713J	IC MB89255B-P-G
5	* BT-419200J	TRANS POW L4012 E,V,B,S	62	EI-388602J	IC MB89352A-P-G
ŭ	. 5,	(E,V,B,S)	63	El-375185	IC M51953BL
6	ED-417916J	D LED SLN-210VT RED T26	64	El-412283J	IC M51955BL
7	* ED-330319	D SILICON DBA10B 100/1.0A	65	EI-353227	IC M5216L
8	* ED-383752J	D SILICON DBF40C 200V/4.0A	66	El-348785	IC M5220L
9	ED-389834J	D SILICON DS135E-FB2 F12 100/1	67	EI-362587J1	IC M5238AL
10	ED-344280	D SILICON H GMA-01-FY2 F05	68	El-377191	IC NJM5532D-D
11	ED-391103J	D ZENER H HZS12B2	69	El-336995	IC NJM78L05A
12	ED-388358J	D ZENER H HZS5C2	70	* EI-397407J	IC NJM7812FA
13	* EF-355226	FUSE BET T 250V 1.00A	71	El-413206J	IC NJM7905FA
	_	[8]	72	* El-410281J	IC NJM7912FA IC PALCE 22V10H-25PC L3022C
14	≭ EF-359225	FUSE BET T 250V 3.15A	73	El-419256J	IC PCM69AP-4
		[B]	74 75	Eł-412279J1 El-410389J	IC PO30RV1
15	* EF-358974	FUSE BET T 250V 630MA	76	* El-353281	IC S13052V
	4. CE 070004	[B] FUSE ICP-N15 50V 0.6A	77	El-419235J	IC SM5841HP
16	* EF-376821	FUSE ICP-N15 50V U.6A FUSE ICP-N25 50V 1.0A	78	El-360038J1	IC TC74HC02AP
17	* EF-373142	FUSE SET T 250V 1.00A	79	El-419228J	IC TC74HC4072AP
18	* EF-623103	(E,V,S)	80	El-419227J	IC TE7774
19	EF-691007	FUSE SET T 250V 3.15A	81	EI-377101	IC UPC7805HF
19	C1 -09 1007	IE.V.SI	82	El-365829	IC UPC812C-AK
20	* EF-601942	FUSE SET T 250V 630MA	83	El-413119J	IC UPD70236GD-16
20	# E1 -00 1542	[E,V,S]	84	El-413121J	IC UPD72069GF-3BA
21	* EF-309387	FUSE TSC A 250V 1.00A	85	EI-405572J	IC UPD78C10AGQ-36
Ε.	1 21 000001	[J]	86	EI-379997J	IC YM3623B
22	* EF-306952	FUSE TSC A 250V 4.00A	87	El-425214J	IC 18CV8PC-15 M8P1
		[J]	88	El-419232J	IC 18CV8PC-15 M8P7
23	* EF-309388	FUSE TSC A 250V 800MA	89	El-419230J	IC 18CV8PC-15 M8P8
		μl	90	El-419161J	IC 18CV8PC-25 L3022A
24	* EF-310229	FUSE TSC 125V 1.00A	91	El-419162J	IC 18CV8PC-25 L3022B
		[C,A]	92	EI-419165J	IC 18CV8PC-25 L3022D
25	* EF-306957	FUSE TSC 125V 4.00A	93	EI-419184J	IC 18CV8PC-25 L5110A
		[C,A]	94	El-419185J	IC 18CV8PC-25 L6028C IC 18CV8PC-25 M8P3
26	* EF-309391	FUSETSC 125V 800MA	95 96	EI-419229J EI-354123	OSC CE CSA120MTZ 12.000000MHZ
	511.0-0-0-	[C,A]	97	El-396541J	OSC X'TAL HC-49/U 32.000000MHZ
27	EH-359185	COMP R RKC1/8B8 103J IC AK5328-VP	98	El-419166J	OSC X'TAL TD308C 10MHZ
28	EI-422329J	ICAN326-VF	99	Ei-384779J	OSC X'TAL TD308C 33.8688MHZ
29 30	El-419226J El-397343J	ICAM27C020-150DC	100	* EJ-358632J1	SOCKET INLET SOT-16 3P
31	EI-386287J	IC HD74AC00P	101	EL-728382J	EL BACK LIGHT
32	EI-389050J	IC HD74AC32P	102	EM-382317J	IND LCD EDM-MPJ2COW
33	EI-386300J	IC HD74AC86P	103	EQ-348929	RELAY SIG G5A-237P 2TR 12V
34	EI-388711J	IC HD74HC00P	104	* ER-200972	R FUSE H S10 ERD2FC 1/4W 33R0G
35	EI-387934J	IC HD74HC04P	105	* ER-318647	R FUSE H S10 ERD2FC 1/4W 4R7J
36	EI-386303J	IC HD74HC08P	106	ES-414627J	SW ROTARY EC24B50D0
37	EI-386289J	IC HD74HC138P	107	★ ES-364478	SW SEESAW SDDTA1 T8.5 01-1
38	EI-402126J	IC HD74HC155P	108	ES-412281J	SW SLIDE SSSU12 2-03S
39	El-419160J	IC HD74HC166P	109	ES-410552J	SW TACT SKHVBE T05
40	EI-396510J	IC HD74HC173P	110	ET-379341	DETECTOR PC910X
41	EI-387936J	IC HD74HC175P	111	ET-419234J	TR FET 2SK669 T05
42	EI-388712J	IC HD74HC245P	112	EV-419242J	VR ROTA, RK09K1110 H6.5L25 B103
43	El-393697J	IC HD74HC259P	113	EV-419243J	VR ROTARY RK16312A0L25A103X2 VR SPL RK0971112 SW L15 B502
44	EI-388709J	IC HD74HC32P	114	EV-419241J	BATTERY LITHIUM CR20325
45	EI-393698J	IC HD74HC365P	115	* EZ-403706J	PAD
46	El-388567J	IC HD74HC573P	116	SE-376331	180
47	El-413124J	IC HD74HC590P			
48	EI-393702J	ICHD74HC595P			
49	El-416497J	IC HM658512LP-85			
50	EI-378277	IC I-0055			
51	EI-379605	IC LA6339			
52	EI-405201J	IC LC3517BL-15 IC LC3517BSL-15			
53	El-416488J	IC LC7981			
54 55	EI-378276 EI-397666J	IC LM2940CT-5.0			
5 5	E1-05/0000				

2. P.C. BOARD BLOCK

Ref. No.	Part No.	Description
1 2 3-A 3-B 4	BA-L4012A020A BA-L4012A030A BA-L4012A040A BA-L4012A040B BA-L4012A050A BA-L4012A090A	PC CPU BLK MPC3000 PC(#) AD/DA BLK MPC3000 PC(#) DRUM PAD BLK MPC3000(J) PC(#) DRUM PAD BLK MPC3000(E) PC(#) OPERATION BLK MPC3000 PC(#) JACK BLK MPC3000
6	BA-L6028A050A	PC 2M-MEMORY BLK S3000

PC (#) AD/DA BLK CONSISTS OF FOLLOWING P.C. BOARDS.

- AD/DA P.C. BOARD
- 8DACS P.C. BOARD

PC (#) DRUM PAD BLK CONSISTS OF FOLLOWING P.C. BOARDS.

- DRUM PAD P.C. BOARD
- POWER P.C. BOARD
- FILTER P.C. BOARD
- VOLUME P.C. BOARD

PC (#) OPERATION BLK CONSISTS OF FOLLOWING P.C. BOARDS.

- OPERATION (A) P.C. BOARD
- OPERATION (B) P.C. BOARD
- OPERATION (C) P.C. BOARD
- SCSI JACK P.C. BOARD.
- CONT VR P.C. BOARD

PC (#) JACK BLK CONSISTS OF FOLLOWING PC BOARDS.

- JACK P.C. BOARD
- SCSI/D IN P.C. BOARD

3. CPU P.C. BOARD

Ref. No.	Part No.	Description
D1	ED-344280	D SILICON H GMA-01-FY2 F05
D2	ED-344280	D SILICON H GMA-01-FY2 F05
D3	ED-344280	D SILICON H GMA-01-FY2 F05
D4	ED-344280	D SILICON H GMA-01-FY2 F05
FL1	EH-410420J	FILTER EMI DSS306-93B101MT05
FL2	EH-410420J	FILTER EMI DSS306-93B101MT05
FL3	EH-410420J	FILTER EMI DSS306-93B101MT05
FL4	EH-410420J	FILTER EMI DSS306-93B101MT05
FL5	EH-410420J	FILTER EMI DSS306-93B101MT05
FL6	EH-410420J	FILTER EMI DSS306-93B101MT05
FL7	EH-410420J	FILTER EMI DSS306-93B101MT05
FL8	EH-410420J	FILTER EMI DSS306-93B101MT05
FL9	EH-410420J	FILTER EMI DSS306-93B101MT05
FL10	EH-410420J	FILTER EMI DSS306-93B101MT05
FL11	EH-410420J	FILTER EMI DSS306-93B101MT05
FL12	EH-410420J	FILTER EMI DSS306-93B101MT05
FL13	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05
FL14	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL15	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL16	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL17	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL18	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05
FL19	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL20	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL21	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL22	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL23	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL24	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL25	EH-413150J	FILTER EMI BL03RN2-R62T4 T05

Her. No.	Part No.	Description
FL26	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL27	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05
FL28	EH-413150J	FILTER EMI BLOSRN2-R62T4 T05
FL29	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05
FL30	EH-413150J	FILTER EMI BLO3RN2-R62T4T05
FL31	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05
FL32	EH-413150J	FILTER EMI BLO3RN2-R62T4T05
FL33	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05
FL34	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05
FL35	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05
FL36	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL37	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05
FL38	EH-410420J	FILTER EMI DSS306-93B101MT05
FL39	EH-410420J	FILTER EMI DSS306-93B101MT05
FL40	EH-410420J	FILTER EMI DSS306-93B101MT05
IB1	EH-359185	COMP R RKC1/8B8 103J
IC1	El-413121J	IC UPD72089GF-3BA
iC2	EI-393698J	IC HD74HC365P
IC3	El-378276	IC LC7981
IC4	El-416488J	IC LC3517BSL-15
IC5	EI-388709J	IC HD74HC32P
IC6	El-413119J	IC UPD70236GD-16
IC7	El-375185	IC M51953BL
IC8	EI-388712J	IC HD74HC245P
IC9	EI-386289J	IC HD74HC138P
IC10	El-402126J	IC HD74HC155P
IC11	El-388711J	IC HD74HC00P
IC12	EI-360038J1	ICTC74HC02AP
IC13	El-419226J	IC AM27C020-150DC
IC14	El-419226J	IC AM27C020-150DC
IC15	El-416497J	IC HM658512LP-85
IC16	El-416497J	IC HM658512LP-85
IC17	El-416488J	IC LC3517BSL-15
IC18	EI-389050J	IC HD74AC32P
IC19	EI-386287J	IC HD74AC00P
IC20	El-419227J	IC TE7774
IC21	EI-419228J	IC TC74HC4072AP
IC22	El-386303J	IC HD74HC08P
IC23	El-372103	IC MB89254 IC HD74HC173P
IC24	El-396510J El-419229J	IC 18CV8PC-25 M8P3
IC25 IC27	EI-393698J	IC HD74HC365P
IC28	El-413120J	IC L7A1045 L6028 DSP-A
IC29	El-419230J	IC 18CV8PC-15 M8P8
IC30	EI-425713J	IC MB89255B-P-G
IC31	EI-419232J	IC 18CV8PC-15 M8P7
IC32	EI-393702J	IC HD74HC595P
IC33	El-393702J	IC HD74HC595P
IC34	Ei-386287J	IC HD74AC00P
IC35	EI-386300J	IC HD74AC86P
J1	EJ-405316J	DIN J M1756 3P
J2	EJ-405316J	DIN J M1756 3P
J3	EJ-405316J	DIN J M1756 3P
J4	EJ-405316J	DIN J M1756 3P
J5	EJ-405316J	DIN J M1756 3P
J6	EJ-405316J	DIN J M1756 3P
J7	EJ-419240J	SOCKET FCN-235J068-G/0 68P
L1	EO-394178J	COIL FIX 2 SBT-0240 400N
L2	EO-394178J	COIL FIX 2 SBT-0240 400N
L3	EO-362435	COIL FIX 1 LAL03NA R22M
L4	EO-394178J	COIL FIX 2 SBT-0240 400N
L5	EO-394178J	COIL FIX 2 SBT-0240 400N
P7	EJ-425508J	PLUG FAN-20SG-1 20P
P10	EJ-419247J	PLUG 128A-050P2C-S14A 50P
PH1	ET-379341	DETECTOR PC910X DETECTOR PC910X
PH2	ET-379341 * ER-200972	R FUSE H S10 ERD2FC 1/4W 33R0G
R8	* EH-2009/2 ET-419234J	TR FET 2SK669 T05
TR1 W201	EW-425614J	WIRE ASSY L4012-1 W201 34P
W201 W202	EW-425615J	WIRE ASSY L4012-1 W202 34P
X1	El-396541J	OSC X'TAL HC-49/U 32.000000MHZ
X2	El-384779J	OSC X'TAL TD308C 33.8688MHZ
1	* EZ-403706J	BATTERY LITHIUM CR2032E

Ref. No.

Part No.

Description

4. AD/DA P.C. BOARD

4. AU/U/		
Ref. No.	Part No.	Description
D101	ED-389834J	D SILICON DS135E-FB2 F12 100/1
D102	ED-388358J	D ZENER H HZS5C2
D103	ED-388358J	D ZENER H HZS5C2
D104	ED-388358J	D ZENER H HZS5C2
D105	ED-391103J	D ZENER H HZS12B2
D106	ED-391103J	D ZENER H HZS12B2
F101 4	FEF-376821	FUSE ICP-N15 50V 0.6A
FL101	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL102	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL103	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL104	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL105	EH-413150J	FILTER EMI BL03RN2-R62T4T05
FL106	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL107	EH-413150J	FILTER EMI BL03AN2-R62T4 T05
FL108	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL109	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL110	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05
FL111	EH-410420J	FILTER EMI DSS306-93B101MT05
FL112	EH-410420J	FILTER EMI DSS306-93B101MT05
FL113	EH-410420J	FILTER EMI DSS306-93B101MT05
IC101	EI-348785	IC M5220L
IC102	EI-348785	IC M5220L
IC103	El-362587J1	IC M5238AL
IC104	EI-362587J1	IC M5238AL
IC105	El-365829	IC UPC812C-AK
IC106	El-422329J	ICAK5328-VP
IC107	El-412283J	IC M51955BL
IC10B	El-419235J	IC SM5841HP
IC169	El-412279J1	IC PCM69AP-4
IC110	EJ-377191	IC NJM5532D-D
IC111	El-348785	IC M5220L
IC112	El-348785	IC M5220L
IC113	Ei-348785	IC M5220L
IC114	El-353227	IC M5216L IC UPC7805HF
IC115	El-377101 El-41 3206J	IC NJM7905FA
IC116 IC117	El-307686J	
J101	EJ-383548J	PIN J YKB11-0252BYELLOW 1P
J102	EJ-353081	PHONE J 3P HLJ0520-010
J103	EJ-353001	PHONE J 3P HLJ0520-010
J104	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J105	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J106	EJ-353031	PHONE J 3P HLJ0520-010
L101	EO-394178J	COIL FIX 2 SBT-0240 400N
L102	EO-394178J	COIL FIX 2 SBT-0240 400N
P101	EJ-425511J	PLUG FAN-34SG-1 34P
P102	EJ-425509J	PLUG FAN-26SG-1 26P
R143	ER-322787	R CB H S10 FS RDS 1/4W 100J
R179	ER-322591	R CB H S10 FS RDS 1/4W 101J
R180	ER-322591	R CB H S10 FS RDS 1/4W 101J
R191	ER-321619	R OMF H S15 FS 1W 101J
R192	ER-321619	R OMF H S15 FS 1W 101J
RL101	EQ-348929	RELAY SIG G5A-237P 2TR 12V
S W 101	ES-412281J	SW SLIDE SSSU12 2-03S

5. 8DACS P.C. BOARD

Ref. No.	Part No.	Description
D301 D302 FL301 FL302 FL303 FL304	ED-388358J ED-388358J EH-410420J EH-410420J EH-410420J EH-413150J	D ZENER H HZS5C2 D ZENER H HZS5C2 FILTER EMI DSS306-93B101MT05 FILTER EMI DSS306-93B101MT05 FILTER EMI DSS308-93B101MT05 FILTER EMI BL03RN2-R62T4 T05
FL305 FL306 FL307 FL308 IC301 IC302 IC303	EH-410420J EH-410420J EH-410420J EH-410420J EI-419235J EI-419235J EI-419235J	FILTER EMI DSS306-93B101MT05 FILTER EMI DSS306-93B101MT05 FILTER EMI DSS306-93B101MT05 FILTER EMI DSS306-93B101MT05 IC SM5841HP IC SM5841HP IC SM5841HP

Ref. No.	Part No.	Description
IC305	El-412279J1	IC PCM69AP-4
IC306	El-412279J1	IC PCM69AP-4
IC307	El-412279J1	IC PCM69AP-4
IC308	El-412279J1	IC PCM69AP-4
IC309	El-377191	IC NJM5532D-D
IC310	El-377191	IC NJM5532D-D
IC311	El-377191	IC NJM5532D-D
IC312	El-377191	IC NJM5532D-D
IC313	El-348785	IC M5220L
IC314	El-348785	IC M5220L
IC315	El-348785	IC M5220L
IC316	El-348785	IC M5220L
IC317	El-348785	IC M5220L
IC318	El-348785	IC M5220L
IC319	EI-348785	IC M5220L
IC320	Ei-348785	IC M5220L
IC321	Ei-397666J	IC LM2940CT-5.0
IC322	El-397666J	IC LM2940CT-5.0
J301	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J302	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J303	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J304	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J305	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J306	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J307	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J308	EJ-354105	PHONE J 2P HLJ0520-110 6.3
R429	ER-322591	R CB H S10 FS RDS 1/4W 101J
R430	ER-322591	R CB H S10 FS RDS 1/4W 101J
R431	ER-322591	R CB H S10 FS RDS 1/4W 101J
R432	ER-322591	R CB H S10 FS RDS 1/4W 101J
R433	ER-322591	R CB H S10 FS RDS 1/4W 101J
R434	ER-322591	R CB H S10 FS RDS 1/4W 101J
F1435	ER-322591	R CB H S10 FS RDS 1/4W 101J
R436	ER-322591	R CB H S10 FS RDS 1/4W 101J
W301	EW-425616J	WIRE ASSY L4012-1 W301 26P

6. DRUM PAD P.C. BOARD

Ref. No.	Part No.	Description
D701	ED-344280	D SILICON H GMA-01-FY2 F05
D702	ED-344280	D SILICON H GMA-01-FY2 F05
D703	ED-344280	D SILICON H GMA-01-FY2 F05
D704	ED-344280	D SILICON H GMA-01-FY2 F05
D705	ED-344280	D SILICON H GMA-01-FY2 F05
D706	ED-344280	D SILICON H GMA-01-FY2 F05
D707	ED-344280	D SILICON H GMA-01-FY2 F05
D708	ED-344280	D SILICON H GMA-01-FY2 F05
D709	ED-344280	D SILICON H GMA-01-FY2 F05
D710	ED-344280	D SILICON H GMA-01-FY2 F05
D711	ED-344280	D SILICON H GMA-01-FY2 F05
D712	ED-344280	D SILICON H GMA-01-FY2 F05
D713	ED-344280	D SILICON H GMA-01-FY2 F05
D714	ED-344280	D SILICON H GMA-01-FY2 F05
D715	ED-344280	D SILICON H GMA-01-FY2 F05
D716	ED-344280	D SILICON H GMA-01-FY2 F05
D717	ED-344280	D SILICON H GMA-01-FY2 F05
D718	ED-344280	D SILICON H GMA-01-FY2 F05
D719	ED-344280	D SILICON H GMA-01-FY2 F05
D720	ED-344280	D SILICON H GMA-01-FY2 F05
D721	ED-344280	D SILICON H GMA-01-FY2 F05
D722	ED-344280	D SILICON H GMA-01-FY2 F05
D723	ED-344280	D SILICON H GMA-01-FY2 F05
D724	ED-344280	D SILICON H GMA-01-FY2 F05
IC701	El-387934J	IC HD74HC04P
IC702	El-379605	IC LA6339
IC703	Ei-362587J1	IC M5238AL
IC704	El-362587J1	IC M5238AL
P701	EJ-425508J	PLUG FAN-20SG-1 20P
P702	EJ-379603	PLUG 20FR-ST

7. POWER P.C. BOARD

	Ref. No.	Part No.	Description
	C802	EC-379611	C EC V \$10 SME 123M 10.0DC
	C803	EC-324662	C EC V CUT AS1 222M 25.0DC
	C804	EC-324662	C EC V CUT AS1 222M 25.0DC
	C807	EC-37 953 5	C TT V F05 DN 106M 16.0DC
	D801	* ED-383752J	D SILICON DBF40C 200V/4.0A
	D802	★ ED-330319	D SILICON DBA10B 100/1.0A
	D803	* ED-389834J	D SILICON DS135E-FB2 F12 100/1
	D804	* ED-388358J	D ZENER H HZS5C2
	IC801	* El-353281	IC S13052V
	IC802	★ EI-397407J	IC NJM7812FA
	IC803	★ Ei-410281J	IC NJM7912FA
	F2-A	* EF-306952	FUSE TSC A 250V 4.00A
			[J]
	F2-B	★ EF-306957	FUSE TSC 125V 4.00A
			[C,A]
	F2-C	★ EF-691007	FUSE SET T 250V 3.15A
			[E,V,S]
	F2-D	★ EF-359225	FUSE BETT 250V 3.15A
			(B)
	F3-A	★ EF-309388	FUSE TSC A 250V 800MA
	Ba.		[J]
10	3-B	★ EF-309391	FUSE TSC 125V 800MA
1	3		[C,A]
	F3-C	★ EF-601942	FUSE SET T 250V 630MA
			[E,V,S]
	F3-D	★ EF-358974	FUSE BET T 250V 630MA
			(B)
	F4-A	★ EF-309388	FUSE TSC A 250V 800MA
			[J]
	F4-B	* EF-309391	FUSETSC 125V 800MA
			[C,A]
	F4-C	★ EF-601942	FUSE SET T 250V 630MA
			[E,V,S]
	4-D	★ EF-358974	FUSE BET T 250V 630MA
410	•		[B]

8. FILTER P.C. BOARD

Raf. No.	Part No.	Description
C851	* EC-425606J	C MMY V CUT MMRC 683M 275AC
C852	* EC-410346J	C CE V DE1110E102M 400AC
853	* EC-410346J	C CE V DE1110E102M 400AC
C854	* EC-410346J	C CE V DE1110E102M 400AC
C855	# EC-410346J	C CE V DE1110E102M 400AC
C856	# EC-338411	C CE V DE7150 FZ 103P 400AC
FL851	* EO-389172J	COIL LF LF-4N 502
R851	★ ER-318647	R FUSE H S10 ERD2FC 1/4W 4R7J
T851	BT-390145J	TRANS PULSE NI05-05-5
F1-A	* EF-309387	FUSETSC A 250V 1.00A
		เม
F1-B	* EF-310229	FUSETSC 125V 1.00A
	_	IC.A1
F1-C	* EF-623103	FUSE SET T 250V 1.00A
		[E,V,S]
F1-D	* EF-355226	FUSE BET T 250V 1.00A
•		IBI

9. VOLUME P.C. BOARD

Het. No.	Part No.	Description
VR701	EV-419243J	VR ROTARY RK16312A0L25A103X2
VR702	EV-419243J	VR ROTARY RK16312A0L25A103X2

10. OPERATION (A) P.C. BOARD

Ref. No.	Part No.	Description
D601	ED-417916J	D LED SLN-210VT RED T26
D602	ED-417916J	D LED SLN-210VT RED T26
D603	ED-417916J	D LED SLN-210VT RED T26
D604	ED-417916J	D LED SLN-210VT RED T26
D605	ED-417916J	D LED SLN-210VT RED T26
D606	ED-417916J	D LED SLN-210VT RED T26
	ED-417916J	D LED SLN-210VT RED T26
D607		
D6 08	ED-417916J	D LED SLN-210VT RED T26
D609	ED-417916J	D LED SLN-210VT RED T26
D610	ED-389834J	D SILICON DS135E-FB2 F12 100/1
D611	ED-344280	D SILICON H GMA-01-FY2 F05
D612	ED-344280	D SILICON H GMA-01-FY2 F05
D613	ED-344280	D SILICON H GMA-01-FY2 F05
D614	ED-344280	D SILICON H GMA-01-FY2 F05
D615	ED-344280	D SILICON H GMA-01-FY2 F05
D616	ED-3 44280	D SILICON H GMA-01-FY2 F05
D617	ED-344280	D SILICON H GMA-01-FY2 F05
D618	ED-344280	D SILICON H GMA-01-FY2 F05
D619	ED-388358J	D ZENER H HZS5C2
IB601	EH-349374	COMP R RKC1/8B8 472J
IC601	El-405572J	IC UPD78C10AGQ-36
IC602	EI-397343J	ICAM27C256-150DC
IC603	El-388567J	IC HD74HC573P
IC604	EI-386289J	IC HD74HC138P
IC605	El-393697J	IC HD74HC259P
IC606	EI-393697J	IC HD74HC259P
IC607	EI-336995	IC NJM78L05A
SW601	ES-410552J	SW TACT SKHVBE T05
SW602	ES-410552J	SW TACT SKHVBE T05
SW603	ES-410552J	SW TACT SKHVBE T05
SW604	ES-410552J	SW TACT SKHVBE T05
SW605	ES-410552J	SW TACT SKHVBE T05
SW606	ES-410552J	SW TACT SKHVBE T05
SW607	ES-410552J	SW TACT SKHVBE T05
SW609	ES-410552J	SW TACT SKHVBE TOS
SW609	ES-410552J	SW TACT SKHVBE TOS
SW610	ES-410552J	SW TACT SKHVBE TOS
	ES-410552J	SW TACT SKHVBE TOS
SW611		SW TACT SKHVBE TOS
SW612	ES-410552J ES-410552J	SW TACT SKHVBE TOS
SW613		SW TACT SKHVBE TOS
SW614	ES-410552J	
SW615	ES-410552J	SW TACT SKHVBE TOS
SW616	ES-410552J	SW TACT SKHVBE TOS
SW617	ES-410552J	SW TACT SKHVBE TOS
SW618	ES-410552J	SW TACT SKHVBE T05
SW619	ES-410552J	SW TACT SKHVBE TOS
SW620	ES-410552J	SW TACT SKHVBE T05
SW621	ES-410552J	SW TACT SKHVBE T05
SW622	ES-410552J	SW TACT SKHVBE T05
SW623	ES-410552J	SW TACT SKHVBE T05
SW624	ES-410552J	SW TACT SKHVBE TOS
SW625	ES-410552J	SW TACT SKHVBE T 05
SW626	ES-410552J	SW TACT SKHVBE TOS
SW627	ES-410552J	SW TACT SKHVBE TOS
SW628	ES-410552J	SW TACT SKHVBET 05
SW629	ES-410552J	SW TACT SKHVBE T05
SW630	ES-410552J	SW TACT SKHVBE T05
SW631	ES-410552J	SW TACT SKHVBE TOS 256
SW632	ES-410552J	SW TACT SKHVBE T05
SW633	ES-410552J	SW TACT SKHVBETOS
SW634	ES-410552J	SW TACT SKHVBE T05
SW635	ES-410552J	SW TACT SKHVBE TOS
SW636	ES-410552J	SW TACT SKHVBE TOS
SW637	ES-410552J	SW TACT SKHVBE TOS
SW638	ES-410552J	SW TACT SKHVBE TOS
SW639	ES-410552J	SW TACT SKHVBE TOS
SW640	ES-410552J	SW TACT SKHVBE TOS
SW641	ES-410552J	SW TACT SKHVBE TOS
	ES-410552J	SW TACT SKHVBE TOS
SW642	ES-410552J	SW TACT SKHVBE TOS
SW643	ES-410552J	SW TACT SKHVBE TOS
SW644		
SW645	ES-410552J	SW TACT SKHVBE TOS
SW646	ES-410552J	SW TACT SKHVBE TOS
SW647	ES-410552J	SW TACT SKHVBE TOS
SW648	ES-4 10552J	SW TACT SKHVBE T05

Ref. No.	Part No.	Description
W601	EW-425618J	WIRE ASSY L4012-1 W601 20P
W602	EW-425619J	WIRE ASSY L4012-1 W602 20P
X601	FI-354123	OSC CE CSA120MTZ 12.000000MHZ

11. OPERATION (B) P.C. BOARD

Ref. No.	Part No.	Description
D661	ED-417916J	D LED SLN-210VT RED T26
D662	ED-417916J	D LED SLN-210VT RED T26
D663	ED-417916J	D LED SLN-210VT RED T26
D664	ED-417916J	DILED SLN-210VT RED T26
D665	ED-417916J	D LED SLN-210VT RED T26
D666	ED-417916J	D LED SLN-210VT RED T26
D667	ED-417916J	D LED SLN-210VT RED T26
SW661	ES-410552J	SW TACT SKHVBE T05
SW662	ES-410552J	SW TACT SKHVBE T05
SW663	ES-410552J	SW TACT SKHVBE T05
SW664	ES-410552J	SW TACT SKHVBE T05
SW665	ES-410552J	SW TACT SKHVBE T05
VR661	EV-365876	VR SLIDE VJ4513-2PVNB5 103

12. OPERATION (C) P.C. BOARD

Ref. No.	Part No.	Description
SW651	ES-410552J	SW TACT SKHVBE T05
SW652	ES-410552J	SW TACT SKHVBE T05
SW653	ES-410552J	SW TACT SKHVBE T05
SW654	ES-410552J	SW TACT SKHVBE T05

13, SCSI JACK P.C. BOARD

Ref. No.	Part No.	Description
FL551	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL552	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL553	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL554	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL555	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL556	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL557	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL558	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL559	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL560	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL561	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL562	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL563	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL564	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL565	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL566	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL567	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
FL568	EH-413150J	FILTER EMI BL03RN2-R62T4 T05
J551	EJ-428182J	SOCKET DBLC-J25SAF-2L9 25P
W503	EW-425617J	WIREASSY L4012-1 W503 26P

14. CONT VR P.C. BOARD

Ref. No.	Part No.	Description
VB703	EV-419241.	VR SPL RK0971112 SW L15 R502

15. JACK P.C. BOARD

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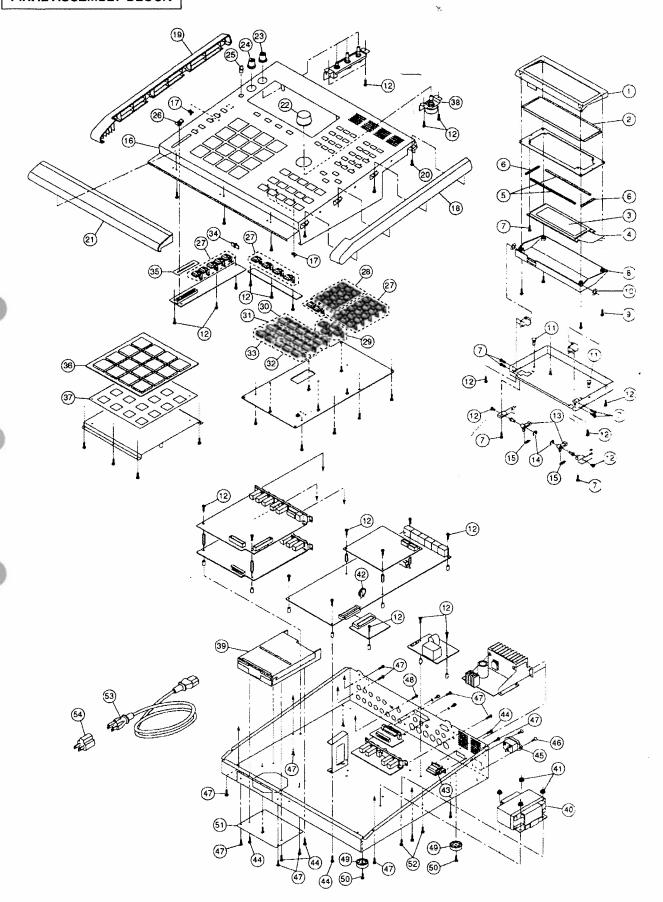
16. SCSI/D IN P.C. BOARD

Ref. No.	Part No.	Description
D901	ED-389834J	D SILICON DS135E-FB2 F12 100/1
F901	* EF-373142	FUSE ICP-N25 50V 1.0A
FL901	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05
IB901	EH-408860J	COMP R RKC1/889 111J
1B902	EH-408860J	COMP R RKC1/8B9 111J
IC901	El-388602J	IC MB89352A-P-G
IC902	El-410389J	IC PQ30RV1
IC903	EI-425713J	IC MB89255B-P-G
IC904	EI-387936J	IC HD74HC175P
IC905	El-379997J	IC YM3623B
IC906	El-425214J	IC 18CV8PC-15 M8P1
IC907	El-393702J	IC HD74HC595P
IC908	EI-393702J	IC HD74HC595P
IC909	EI-387934J	IC HD74HC04P
P901	EJ-419246J	SOCKET 128A-050S2A-S14A 50P
P902	EJ-425509J	PLUG FAN-26SG-1 26P

17. WAVE MEMORY P.C. BOARD (2M-MEMORY)

Ref. No.	Part No.	Description
IC1	El-412247J	IC MB814400-80L PSZ-G
IC2	El-412247J	IC MB814400-80L PSZ-G
1C3	EI-412247J	IC MB814400-80L PSZ-G
IC4	El-412247J	IC MB814400-80L PSZ-G
IC5	El-419185J	IC 18CV8PC-25 L6028C
P301	EJ-413161.I	PLUG ECN-235P68-G/0 68P

FINAL ASSEMBLY BLOCK



18. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1	SP-419812J	PANELLCD(A)3 MPC3000
2	SE-419757J	WINDOW LCD
3	EM-382317J	IND LCD EDM-MPJ2COW
4	EL-728382J	EL BACK LIGHT
5	SZ-401475J1	SEAL DUST A
6	SZ-401476J1	SEAL DUST B
7	ZS-320906	ST BR30X06STL CMT
8	SP-419959J	PANELLCD(B)2
9	ZS-417407	PAN30X10STLBNI
10	ZW-259738	PW41X070X025PSL
11	ZW-318343	RV NYL40X050
12	ZS-379405	BID30X06STL CMT
13	ML-380175J	ARM LOCK
14	ZW-270101	RING E 300SUP CMT
15	ZG-380174J	SP PULL ARM LOCK
16	SP-419767	FANEL TOP
17	SE-419756J	LENS LED
18	SP-419765J	PANEL SIDE(R)
19	SP-419766J ZS-332009	PANEL SIDE(L)
20		PT BR30X06STL CMT CUSHION PAD PART
21	SZ-419759J	KNOB CONTROL
22	SK-411156J	KNOB VOL PART(1)
23	SK-411144J	KNOB VOL PART(2)
24	SK-411147J	• •
25	SK-413636J SK-364219B	KNOB VOL GR KNOB SLIDE(B)
26		2 1
27	SB-419762J	BUTTON PUSH(A)
28	SB-419763J	BUTTON PUSH(B)
29	SB-419764J	BUTTON PUSH(C) KNOB OPERATE(E)
30	SK-419827J	KNOBOPERATE(A)
31	SK-378253A	KNOB OPERATE(B)
32	SK-378253B	KNOB OPERATE(D)
33	SK-378253D `	MASK LED
34	SE-419749J	MASKSLIDE
35	SE-423110J	PAD
36	SE-376331	PC PAD SENSOR
37	BA-379695J1	SWROTARY EC24B50D0
. 38	ES-414627J	FLOPPY DISK FD-235HF-3300
39	88-428036J ★ BT 378371	TRANS POW L4003 J
40-A	★ BT-378271	[J]
40 D	* BT-378272	TRANS POW L4003 C,A
40-B	₩ D1-3/02/2	[C,A]
40.0	# BT-419200J	TRANS POW L4012 E, V,B,S
40-C	∓ D1-4192003	[E,V,B,S]
41	ZW-609434	N FRANGE 30STL CMT
41	* EZ-403706J	BATTERY LITHIUM CR2032E
43	★ ES-364478	SW SEESAW SDDTA1 T8.5 01-1
44	ZS-355511	BID30X06STL BNI
45	* EJ-358632J1	SOCKET INLET SOT-163P
46	ZS-336612	ST CTS30X08STL BNI
47	ZS-345272	ST BR30X06STL BNI
48	ZS-350934	PT BR30X08STL BNI
49	ZS-379405	BID30X06STL CMT
50	SA-332850	FOOT ROUND SHAPED
51	ZS-360715	ST PAN30X08STL CMT C080
52	SE-419761J	COVER FDD
53	ZS-396044	BID30X08STL BNI
54-A	★ EW-380905J	AC CORD 250S KP300 KS16A H B J
0.7.7		IJ
54-B	* EW-368420J1	AC CORD200SKP30KS16 BAC
340		[C,A]
54-C	* EW-403993J	AC CORD200SKP4819DKS31ABE
34 0	, 200 1000000	[E,V]
54-D	* EW-419170J	AC CORD200S KP610 KS31A B
		[B]
54-E	* EW-368418J1	AC CORD200SKP551KS31 B S
		[S]
55	* EJ-405424J	PLUG ADAPTOR KPR-25
		[J]

19. EXM3008 (OPTIONAL P.C. BOARD)

Ref. No.	Part No.	Description
IC1	El-414848J	IC MB8116400-70PZ-G
IC2	El-414848J	IC MB8116400-70PZ-G
IC3	EI-414848J	IC MB8116400-70PZ-G
IC4	El-414848J	IC MB8116400-70PZ-G
IC5	El-419184J	IC 18CV8PC-25 L5110A
P101	EJ-413161J	PLUG FCN-235P68-G/0 68P

20. IB-CRT (A) (OPTIONAL P.C. BOARD)

Ref. No.	Part No.	Description
IC1	El-413124J	IC HD74HC590P
IC2	El-413124J	IC HD74HC590P
IC3	EI-405201J	IC LC3517BL-15
IC4	EI-393702J	IC HD74HC595P
IC5	El-419160J	IC HD74HC166P
1C6	El-419161J	IC 18CV8PC-25 L3022A
IC7	EI-419162J	IC 18CV8PC-25 L3022B
IC8	El-419256J	IC PALCE 22V10H-25PC L3022C
IC9	El-419165J	IC 18CV8PC-25 L3022D
X1	El-419166J	OSC X'TAL TD308C 10MHZ

21. IB-CRT (B) (OPTIONAL P.C. BOARD)

Ref. No.	Part No.	Description
W1	EJ-419167J	SOCKET KHEY-15S-1A3A 15P

22. I-0055 (OPTIONAL IC)

Ref. No.	Part No.	Description
1	EI-378277	IC 1-0055

NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

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-	art No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
							E1040705	5-IC317
B	AL4012A020A	2-1	ED389834J	4-D101	EH410420J	15-FL502	El348785	
B	AL4012A030A	2-2	ED389834J	7-D803	EH410420J	15-FL503	El348785	5-IC318
P	AL4012A040A	2-3-A	ED389834J	10-D610	EH410420J	15-FL504	El348785	5-IC319
1	AL4012A040B	2-3-B	ED389834J	16-D901	EH410420J	15-FL505	El348785	5-IC320
1			ED391103J	4-D105	EH413150J	3-FL13	El353227	4-IC114
1	AL4012A050A	2-4		1		3-FL14	El353281	7-IC801
В	AL4012A090A	2-5	ED391103J	4-D106	EH413150J			
В	AL6028A050A	2-6	ED417916J	10-D601	EH413150J	3-FL15	El354123	10-X601
В	A379695J1	18-37	ED417916J	10-D602	EH413150J	3-FL16	El360038J1	3-IC12
P	B428036J	18-39	ED417916J	10-D603	EH413150J	3-FL17	El362587J1	4-IC103
	T378271	18-40-A	ED417916J	10-D604	EH413150J	3-FL18	El362587J1	4-IC104
8	T378272	18-40-B	ED417916J	10-D605	EH413150J	3-FL19	El362587J1	6-IC703
P	T390145J	8-T851	ED417916J	10-D606	EH413150J	3-FL20	El362587J1	6-IC704
	T419200J	18-40-C	ED417916J	10-D607	EH413150J	3-FL21	El362587J1	15-IC501
_	C324662	7-C803	ED417916J	10-D608	EH413150J	3-FL22	El362587J1	15-IC502
1		7-C804	ED417916J	10-D609	EH413150J	3-FL23	El365829	4-IC105
1	C324662		į.	11-D661	EH413150J	3-FL24	El372103	3-IC23
	C338411	8-C856	ED417916J	1		3-FL25	E1375185	3-IC7
E	C379535	7-C807	ED417916J	11-D662	EH413150J			
ĺΕ	C379611	7-C802	ED417916J	11-D663	EH413150J	3-FL26	El377101	4-IC115
F	C410346J	8-C852	ED417916J	11-D664	EH413150J	3-FL27	El377191	4-IC110
1	C410346J	8-C853	ED417916J	11-D665	EH413150J	3-FL28	El377191	5-IC309
				_			E10774 * *	E 10010
E	C410346J	8-C854	ED417916J	11-D666	EH413150J	3-FL29	El377191	5-IC310
F	C410346J	8-C855	ED417916J	11-D667	EH413150J	3-FL30	El377191	5-IC311
	C425606J	8-C851	EF306952	7-F2-A	EH413150J	3-FL31	El377191	5-IC312
	D330319	7-D802	EF306957	7-F2-B	EH413150J	3-FL32	El378276	3-IC3
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			EF309388	7-F3-A	EH413150J	3-FL34	El379605	6-IC702
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	D344280	3-D3	EF309388	7-F4-A			E1384779J	3-X2
1	D344280	3-D4	EF309391	7-F3-B	EH413150J	3-FL36		
E	D344280	6-D701	EF309391	7-F4-B	EH413150J	3-FL37	E1386287J	3-IC19
E	D344280	6-D702	EF310229	8-F1-B	EH413150J	4-FL101	El386287J	3-IC34
				. 51 5	E11440457.1	4.51.400	Elsa conc. I	2100
E	D344280	6-D703	EF355226	8-F1-D	EH413150J	4-FL102	El386289J	3-1C9
F	D344280	6-D704	EF358974	7-F3-D	EH413150J	4-FL103	El386289J	10-IC604
	D344280	6-D705	EF358974	7- F4- D	EH413150J	4-FL104	El386300J	3-IC35
5 i	D344280	6-D706	EF359225	7-F2-D	EH413150J	4-FL105	El386303J	3-IC22
1	ED344280	6-D707	EF373142	16-F901	EH413150J	4-FL106	El387934J	6-IC701
	-		EF376821	4-F101	EH413150J	4-FL107	El387934J	16-IC909
1	ED344280	6-D708	I .		EH413150J	4-FL108	El387936J	16-IC904
1	D344280	6-D709	EF601942	7-F3-C	**		El3879363 El388567J	10-IC603
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- 1	ED344280	6-D711	EF623103	8-F1-C	EH413150J	4-FL110	El388602J	16-IC901
E	ED344280	6-D712	EF691007	7-F2-C	EH413150J	5-FL304	El388709J	3-IC5
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1	D344280	6-D714	EH359185	3-IB1	EH413150J	13-FL552	El388712J	3-IC8
	ED344280	6-D715	EH408860J	16-IB901	EH413150J	13-FL553	E1389050J	3-IC18
	ED344280	6-D716	EH408860J	16-IB902	EH413150J	13-FL554	E1393697J	10-IC605
	ED344280	6-D717	EH410420J	3-FL1	EH413150J	13-FL555	El393697J	10-IC606
Ι.	ED344280	6-D718	EH410420J	3-FL2	EH413150J	13-FL556	El393698J	3-IC2
	ED344280 ED344280	6-D719	EH410420J	3-FL3	EH413150J	13-FL557	E1393698J	3-IC27
			EH410420J	3-FL4	EH413150J	13-FL558	El393702J	3-IC32
- 1	ED344280	6-D720	1			13-FL556 13-FL559	El393702J	3-IC32 3-IC33
	ED344280	6-D721	EH410420J	3-FL5	EH413150J			16-IC907
F	ED344280	6-D722	EH410420J	3-FL6	EH413150J	13-FL560	El393702J	10-10-90/
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	ED344280	6-D723	EH410420J	3-FL7	EH413150J		E1393702J	20-IC4
i i	D344280	6-D724	EH410420J	3-FL8	EH413150J	13-FL562		
- 1	ED344280	10-D611	EH410420J	3-FL9	EH413150J	13-FL563	El396510J	3-IC24
F	ED344280	10-D612	EH410420J	3-FL10	EH413150J	13-FL564	El396541J	3-X1
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- 3	ED344280	15-D502			El348785	4-IC102	EI410281J	7-IC803
- 1	ED383752J	7-D801	EH410420J	5-FL301	1		ł	16-IC902
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1	ED388358J	4-D103	EH410420J	5-FL303	El348785	4-IC112	El412247J	17-IC1
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[]	ED388358J	5-D301	EH410420J	5-FL306	El348785	5-IC313	El412247J	17-IC3
- 1							EI412247J	17-IC4
- []		5.D302	FH410420J	5-FL307	E1348785	5-IC314	C14 ZC4/U	17-10-4
- 1	ED388358J ED388358J	5-D302 7-D804	EH410420J EH410420J	5-FL307 5-FL308	El348785 El348785	5-IC315	EI412279J1	4-IC109

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El412279J1	5-IC307	EJ419167J	21-W1	ES410552J	10-SW634	SP419812J	18-1
		EJ419240J	3-J7	ES410552J	10-SW635	SP419959J	18-8
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EI413119J	3-IC6	EJ419247J	3-P10	ES410552J		1	
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El413121J	3-IC1	EJ425508J	6-P701	ES410552J	10-SW639	ZG380174J	18-15
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El419161J	20-IC6	EO394178J	4-L101	ES410552J	11-SW664	ZW270101	18-14
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El419165J	20-IC9	EQ348929	4-RL101	ES410552J	12-SW651	ZW609434	10*41
El419166J	20-X1	ER200972	3-R8	ES410552J	12-SW652	1	
EI419184J	19-IC5	ER318647	8-R851	ES410552J	12-SW653		
EH19185J	17-IC5	ER321619	4-R191	ES410552J	12-SW654		
			4-R192	ES412281J	4-SW101	1	
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El419226J	3-IC14	ER322591	4-R179	ES414627J	18-38	1	
El419227J	3-1C20	ER322591	4-R180	ET379341	3-PH1	[
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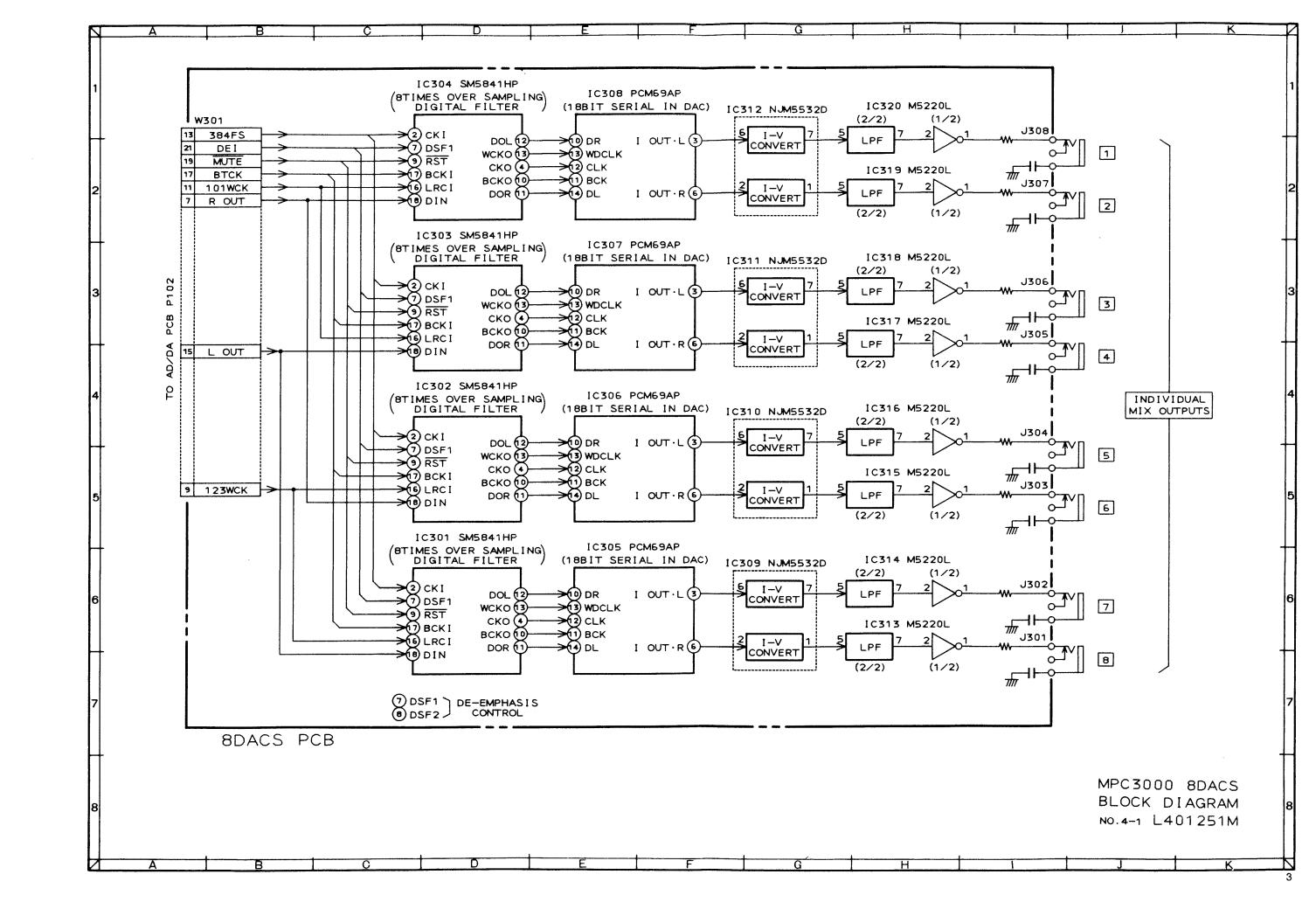
MODEL MPC3000

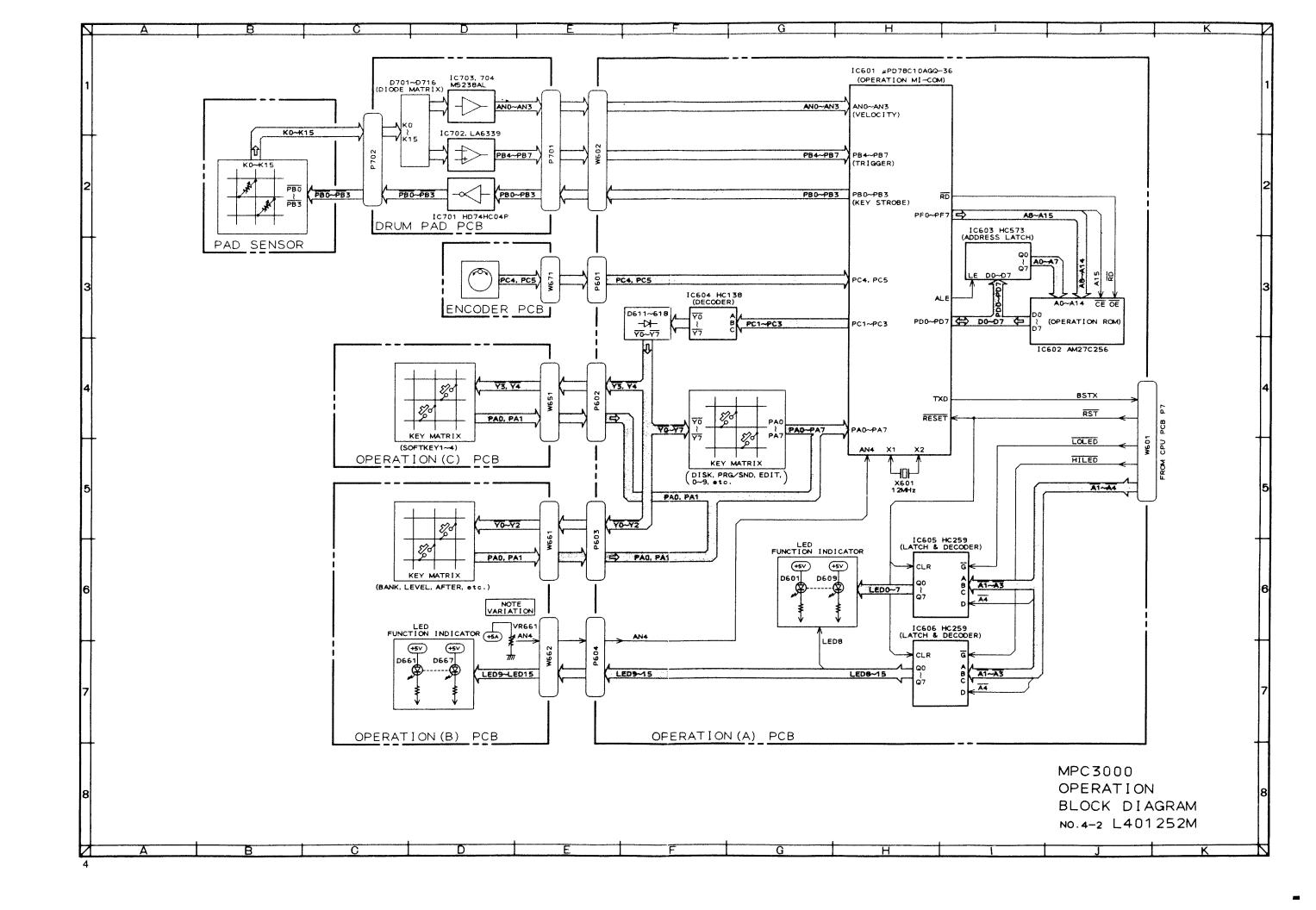
SCHEMATIC DIAGRAMS AND PC BOARDS

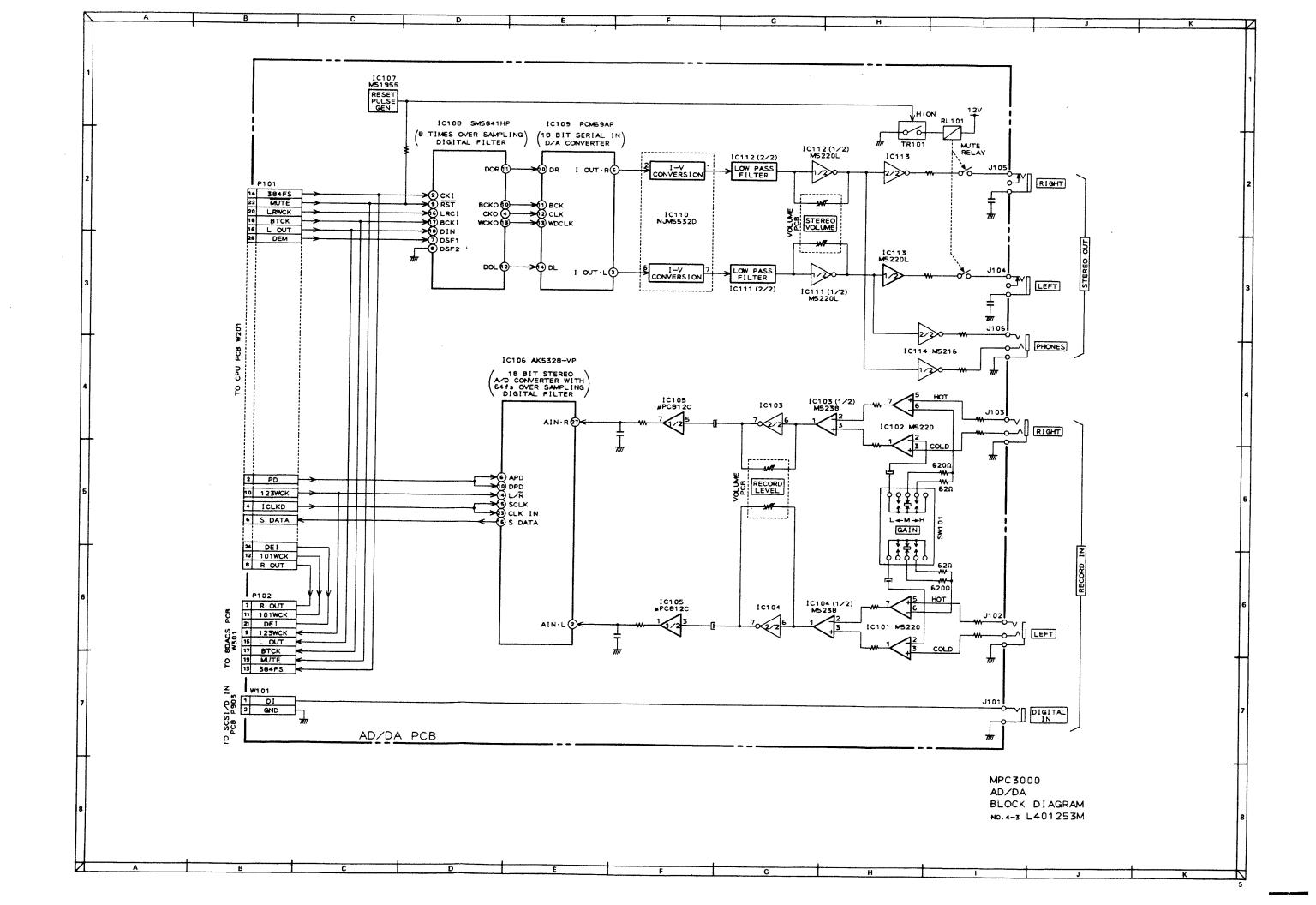
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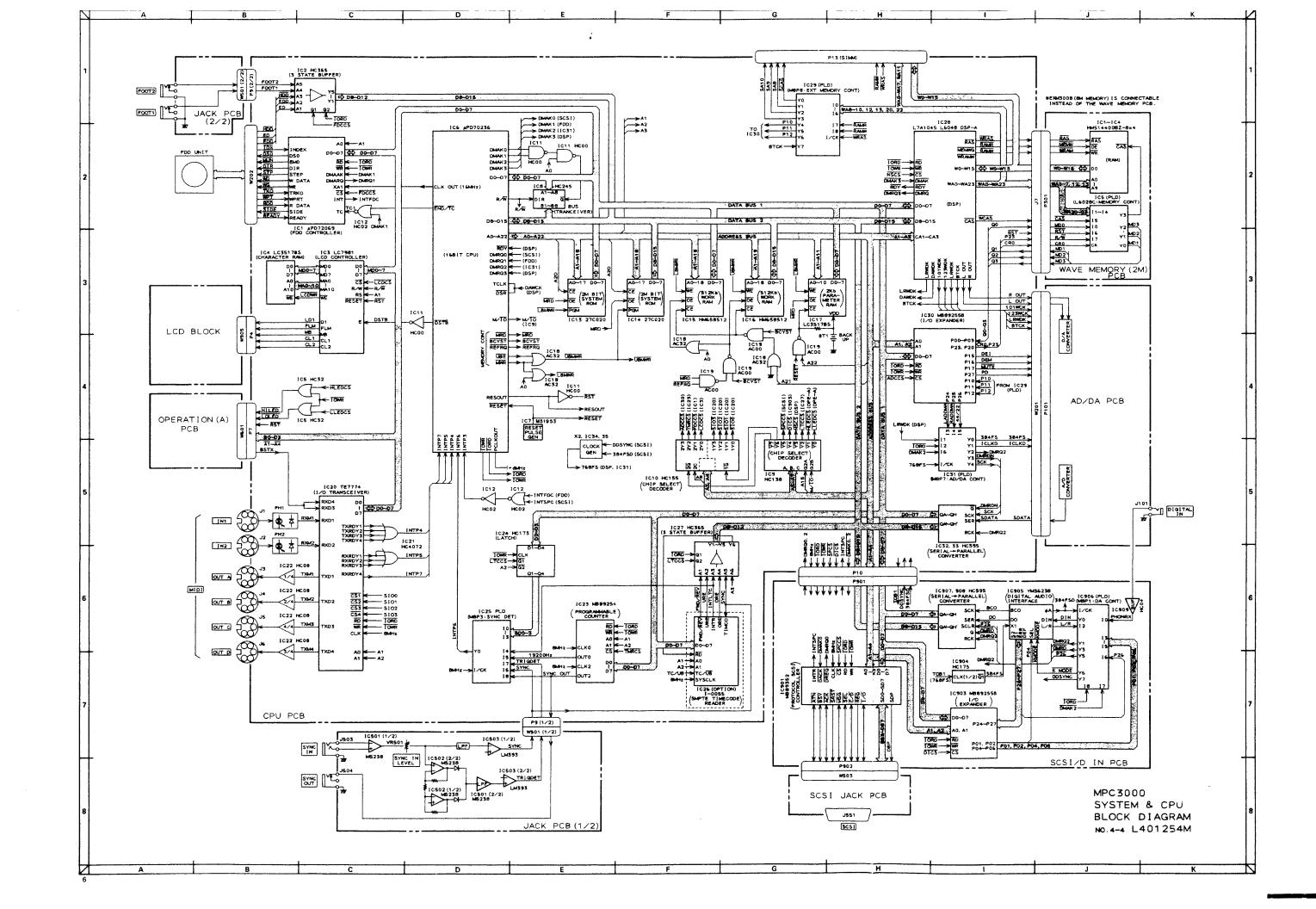
ı.	BLOCK DIAGRAMS	
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	2. OPERATION	
	3. AD/DA	. ;
	4. SYSTEM & CPU	. (
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	2. CPU	
	3. AD/DA	1
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	10. SCSI/D IN	2
	11. WAVE MEMORY	
	12. 8M-MEMORY (OPTIONAL)	
	13. IB-CRT (OPTIONAL)	
	13. ID-UNI (UTIIUNAL)	
***	INFORMATION OF ICO	3

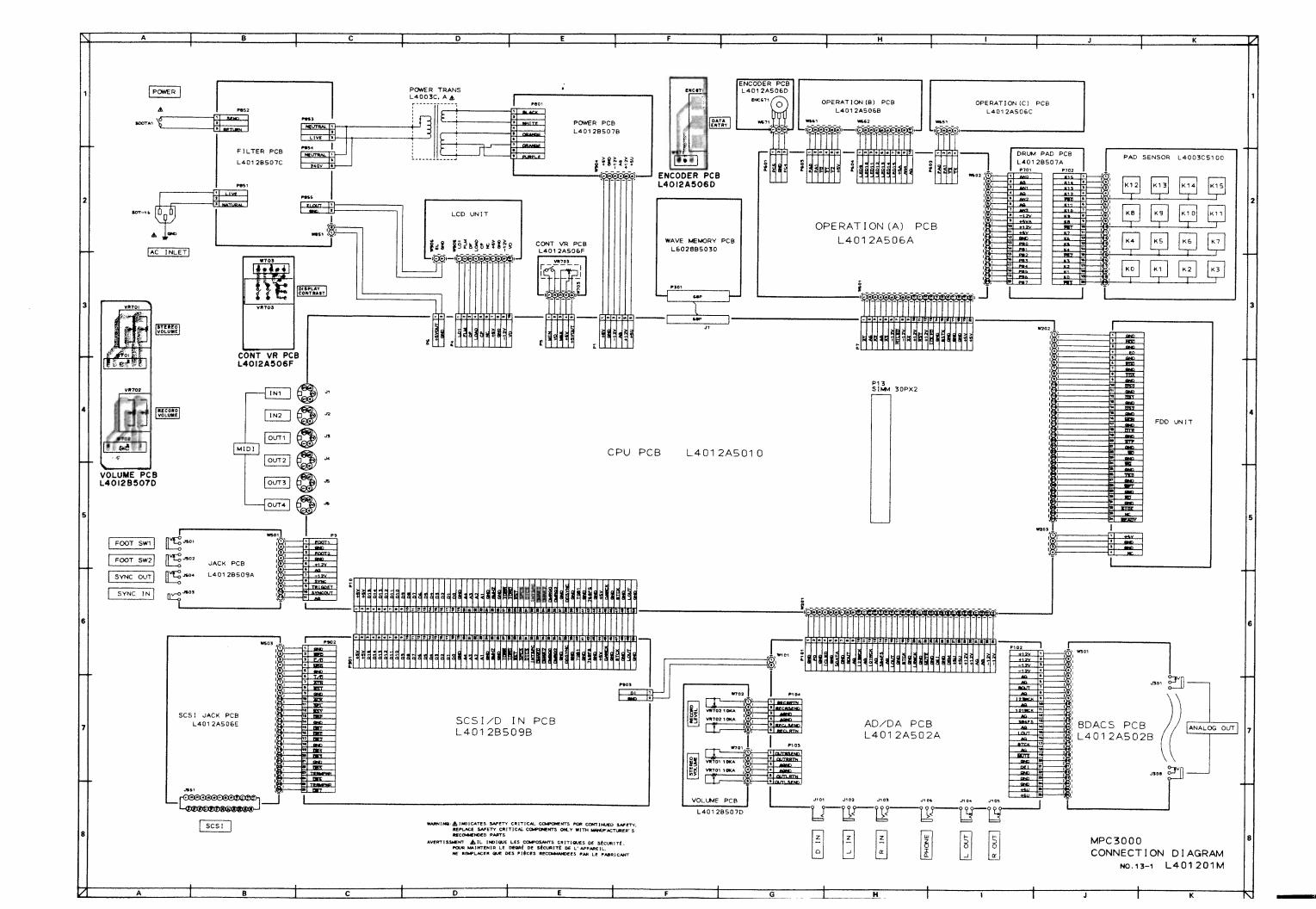
Use these schematic diagrams and PC boards together with the provided service manual.

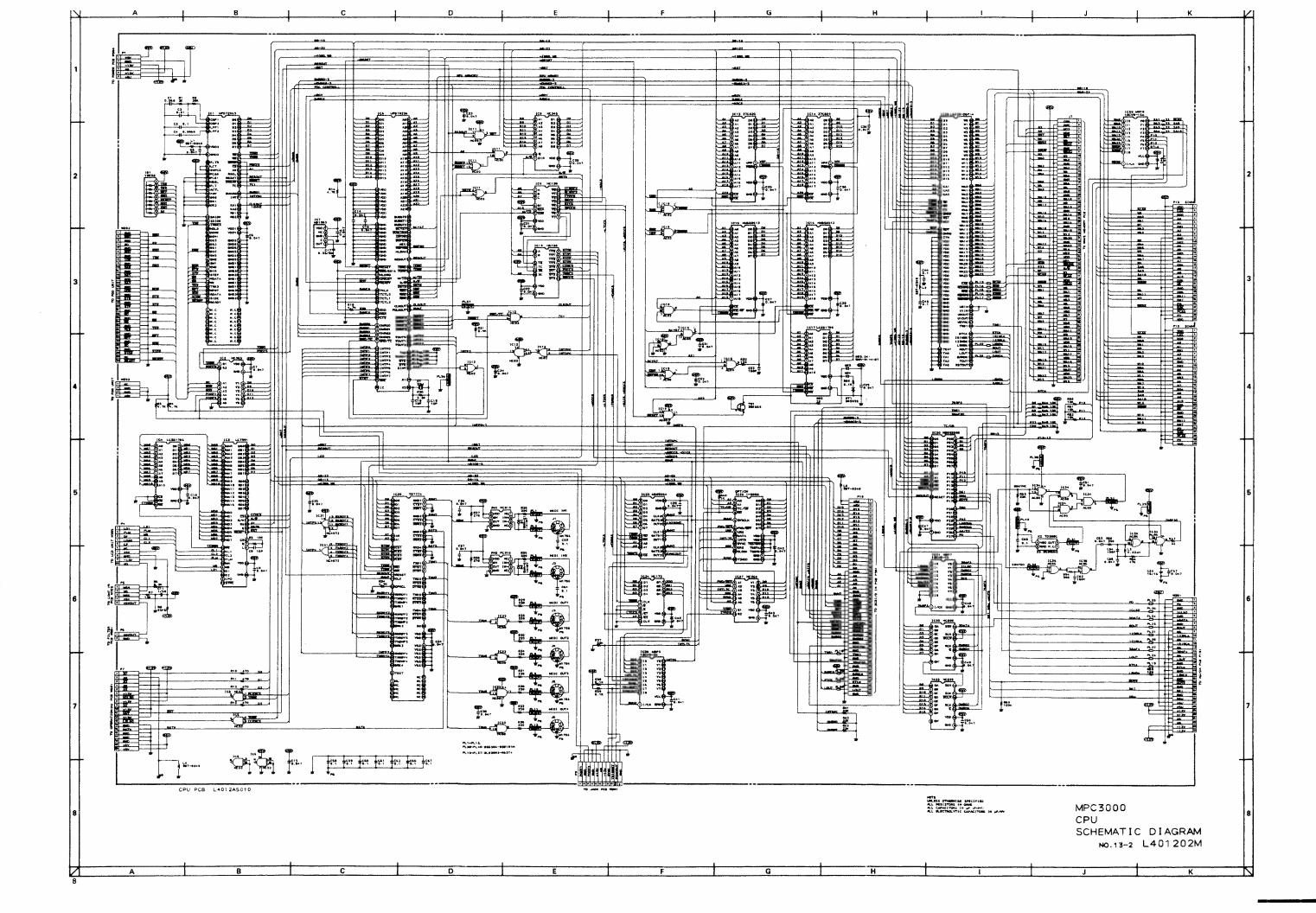










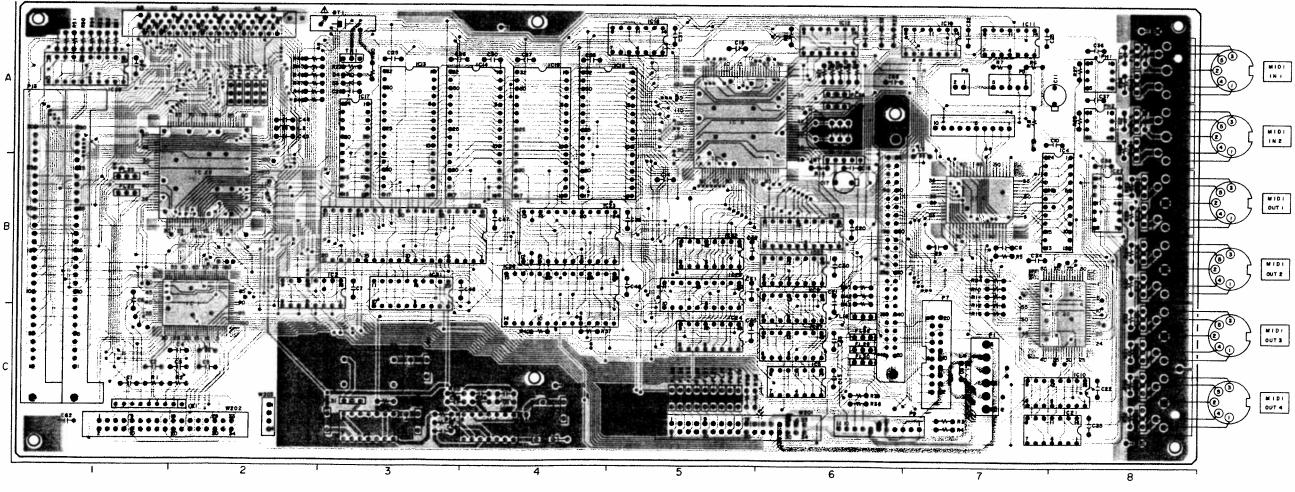


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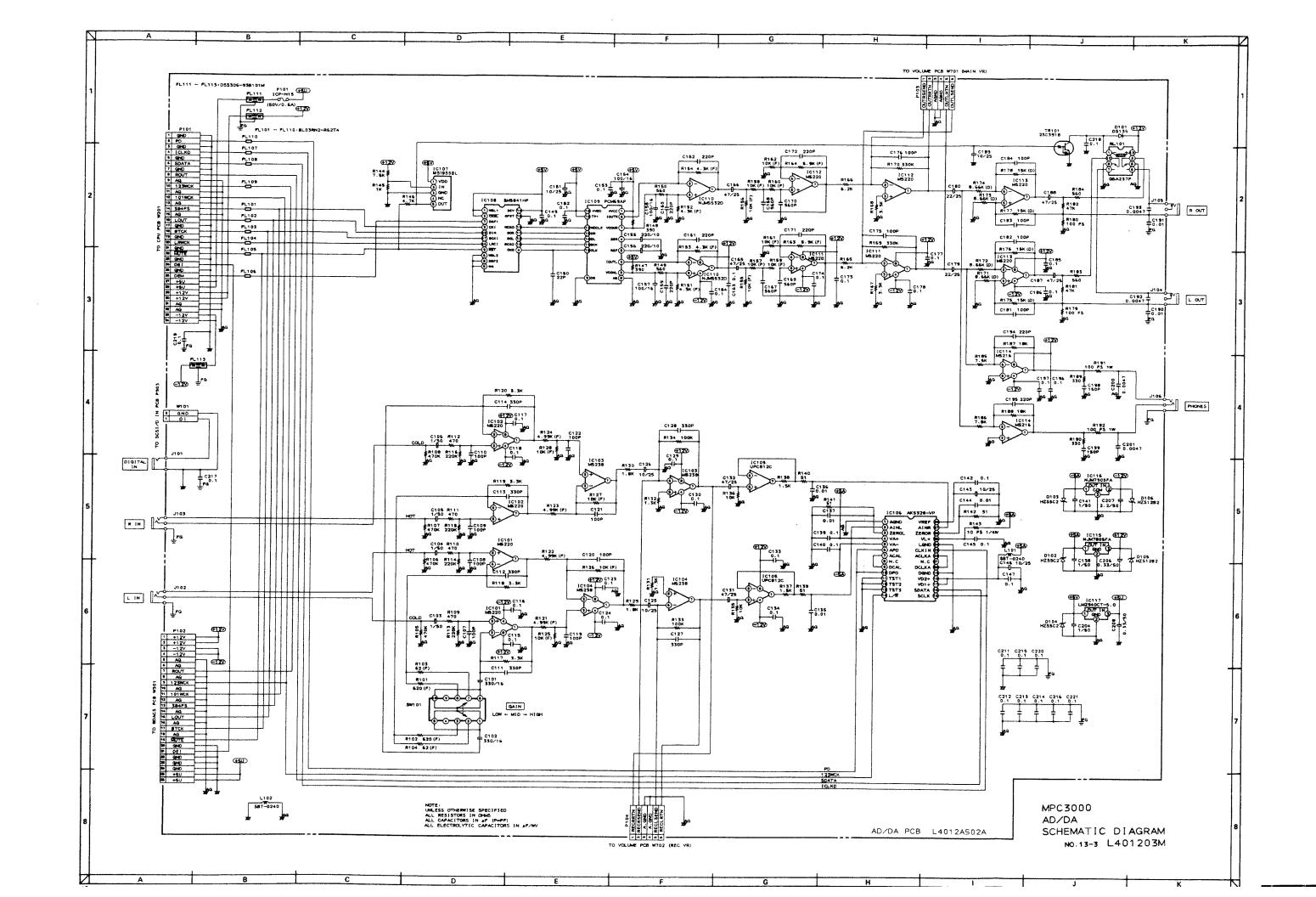
IC32 IC33

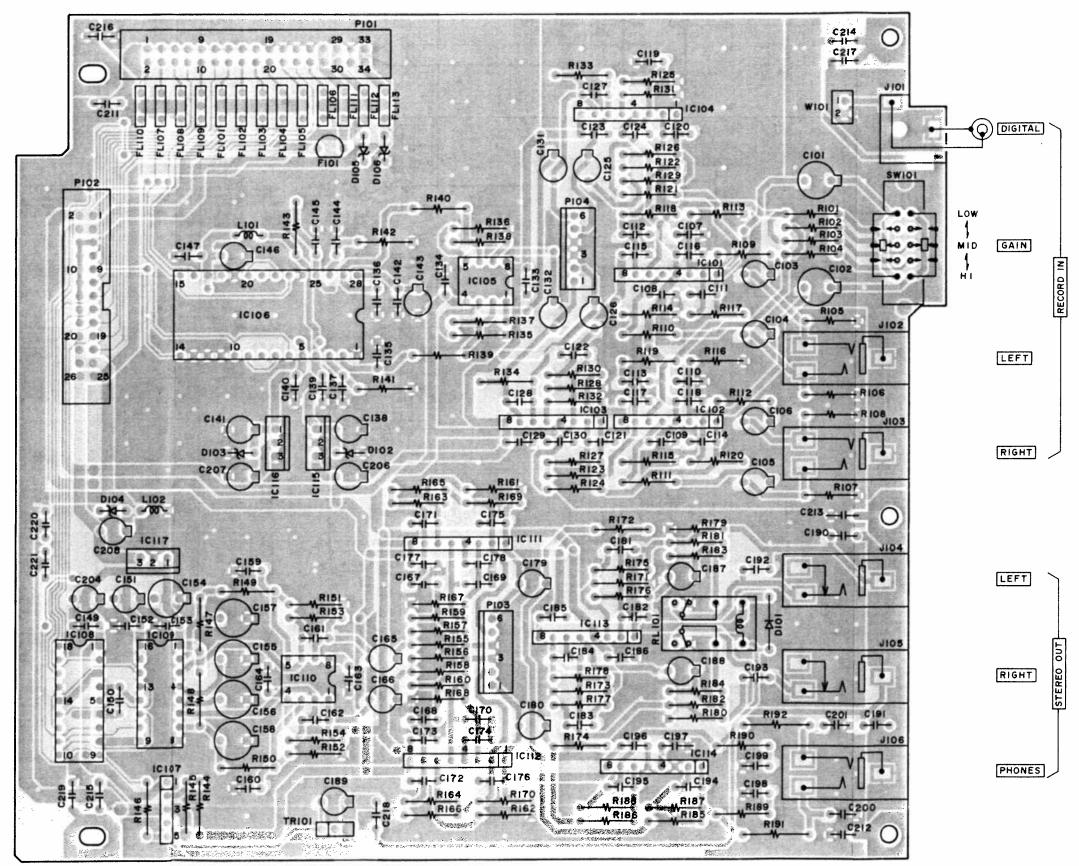


CPU PCB L4012A5010

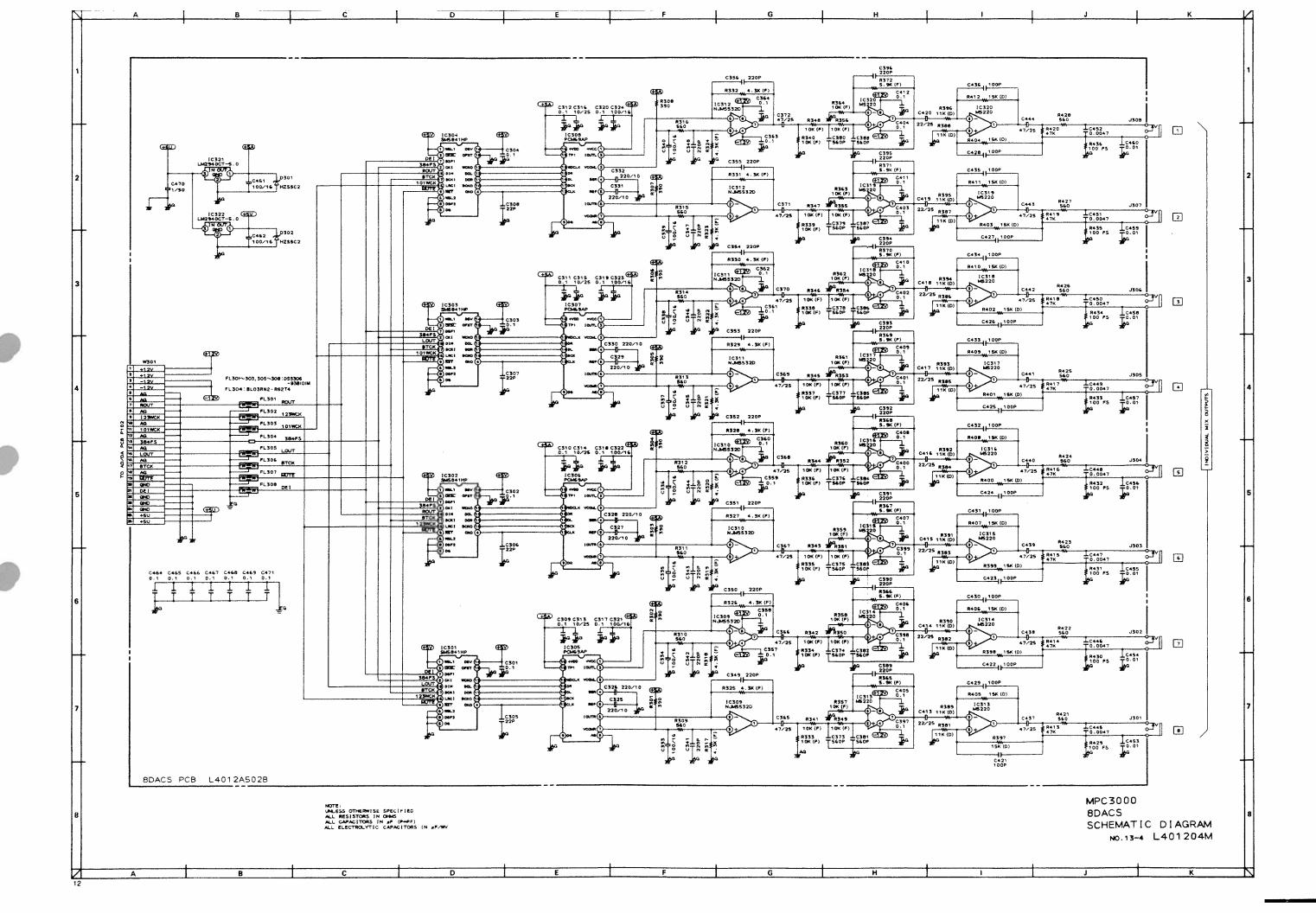
WARNING. ▲INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

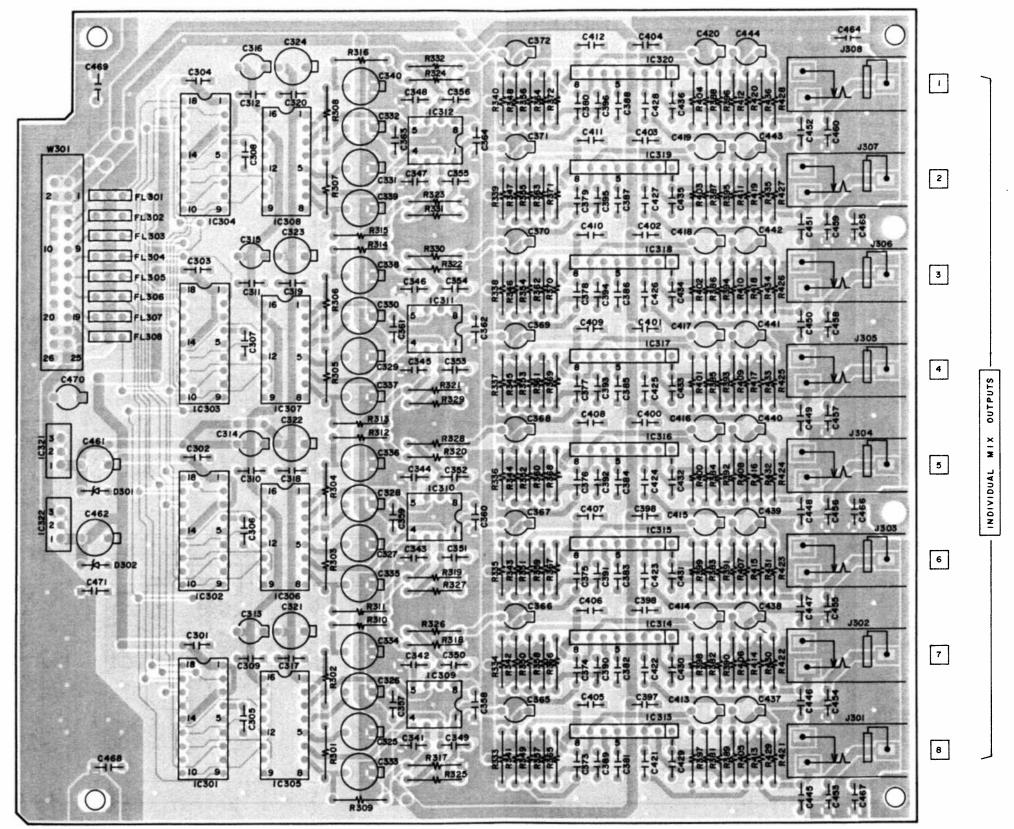
AVERTISSEMENT: <u>A</u>IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT



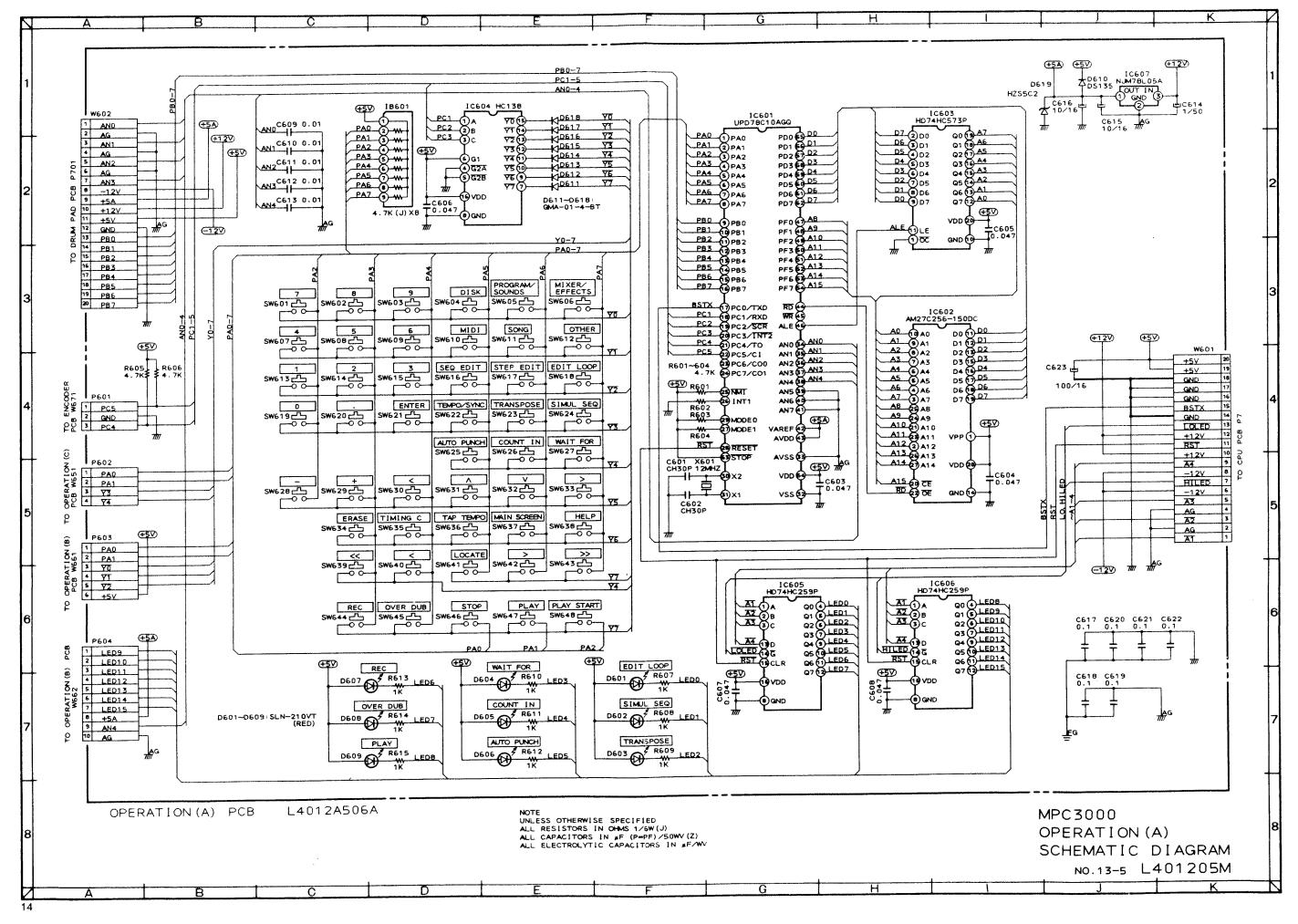


AD/DA PCB L4012A502A

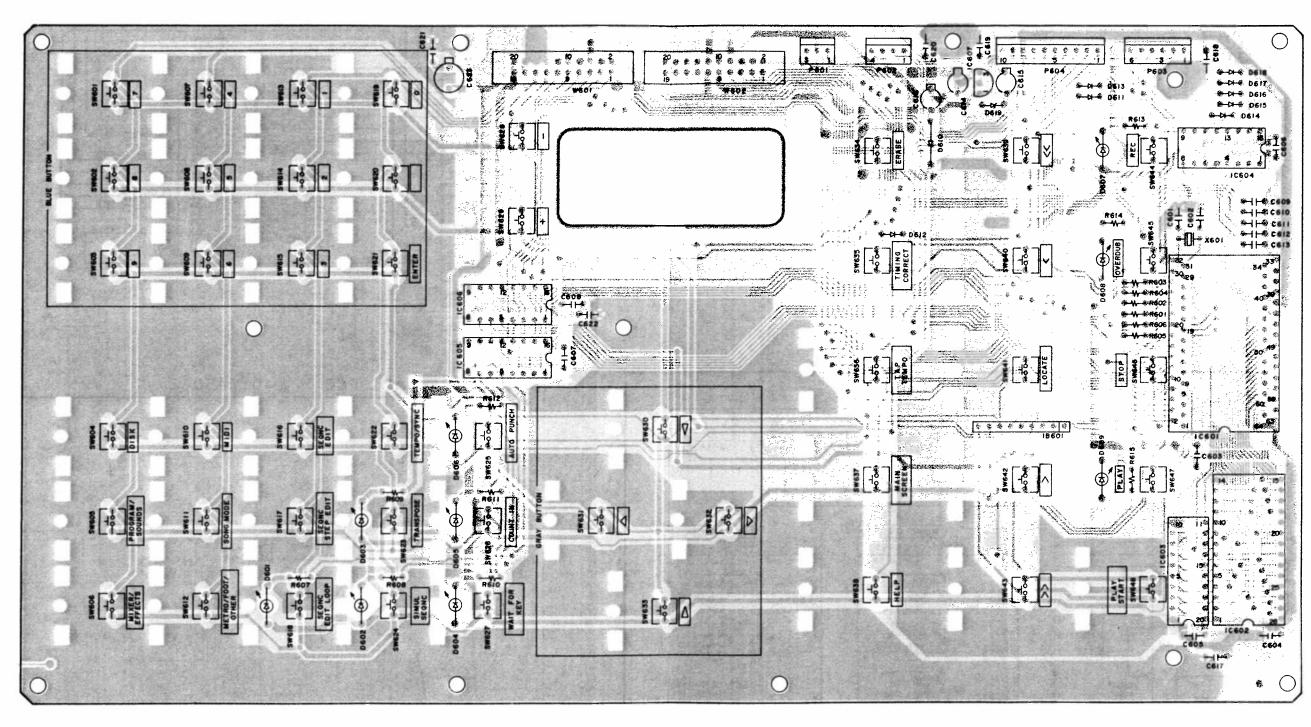




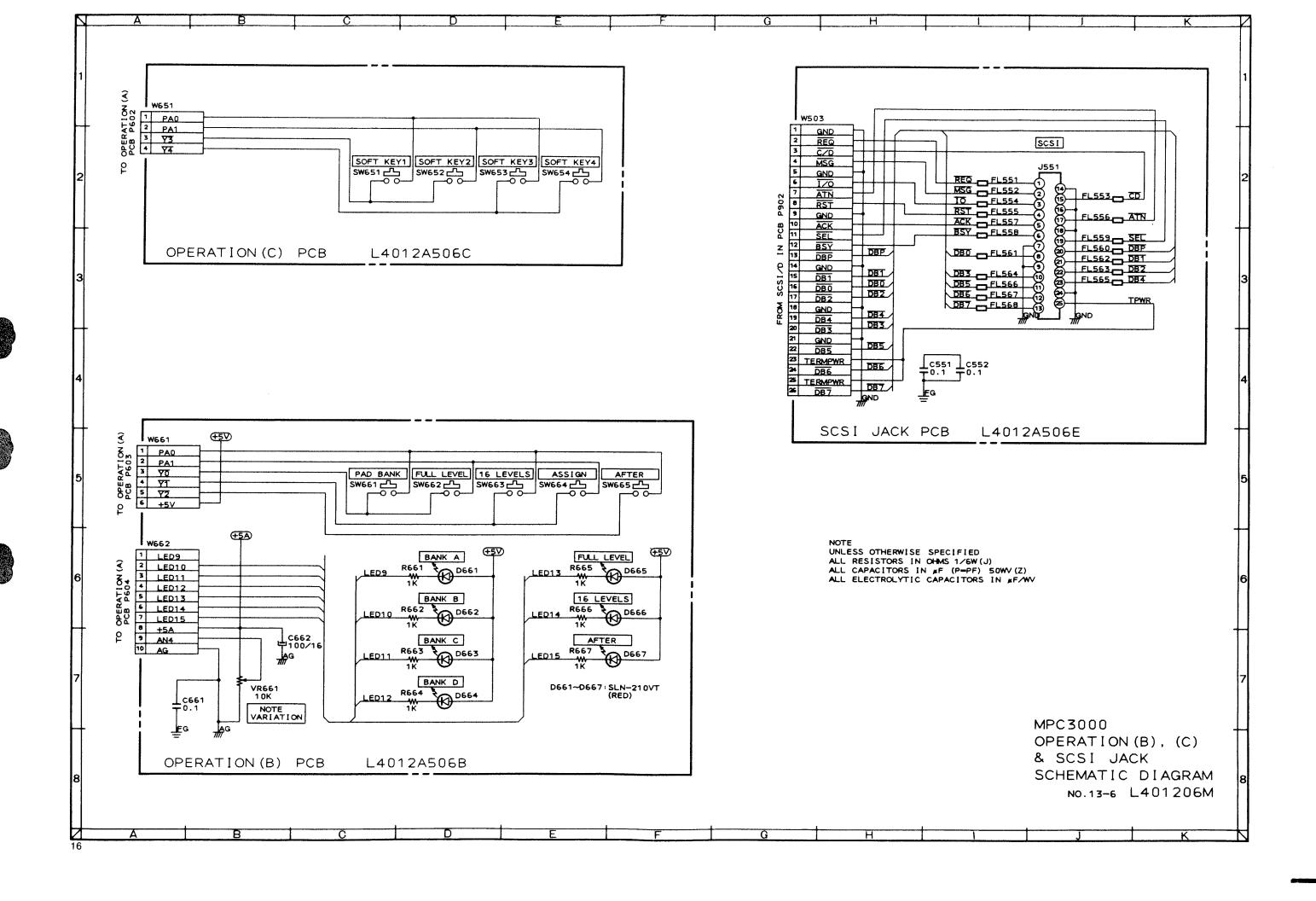
8DACS PCB L4012A502B

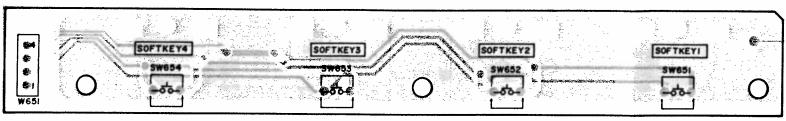


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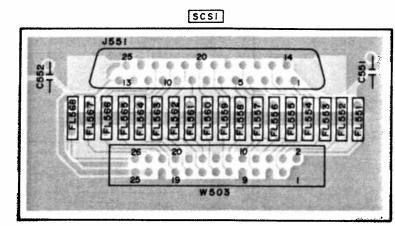


OPERATION(A) PCB L4012A506A

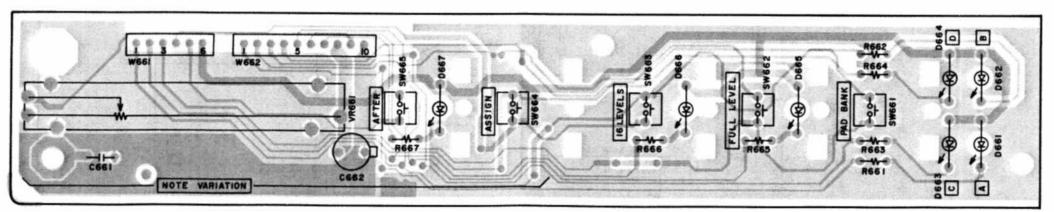




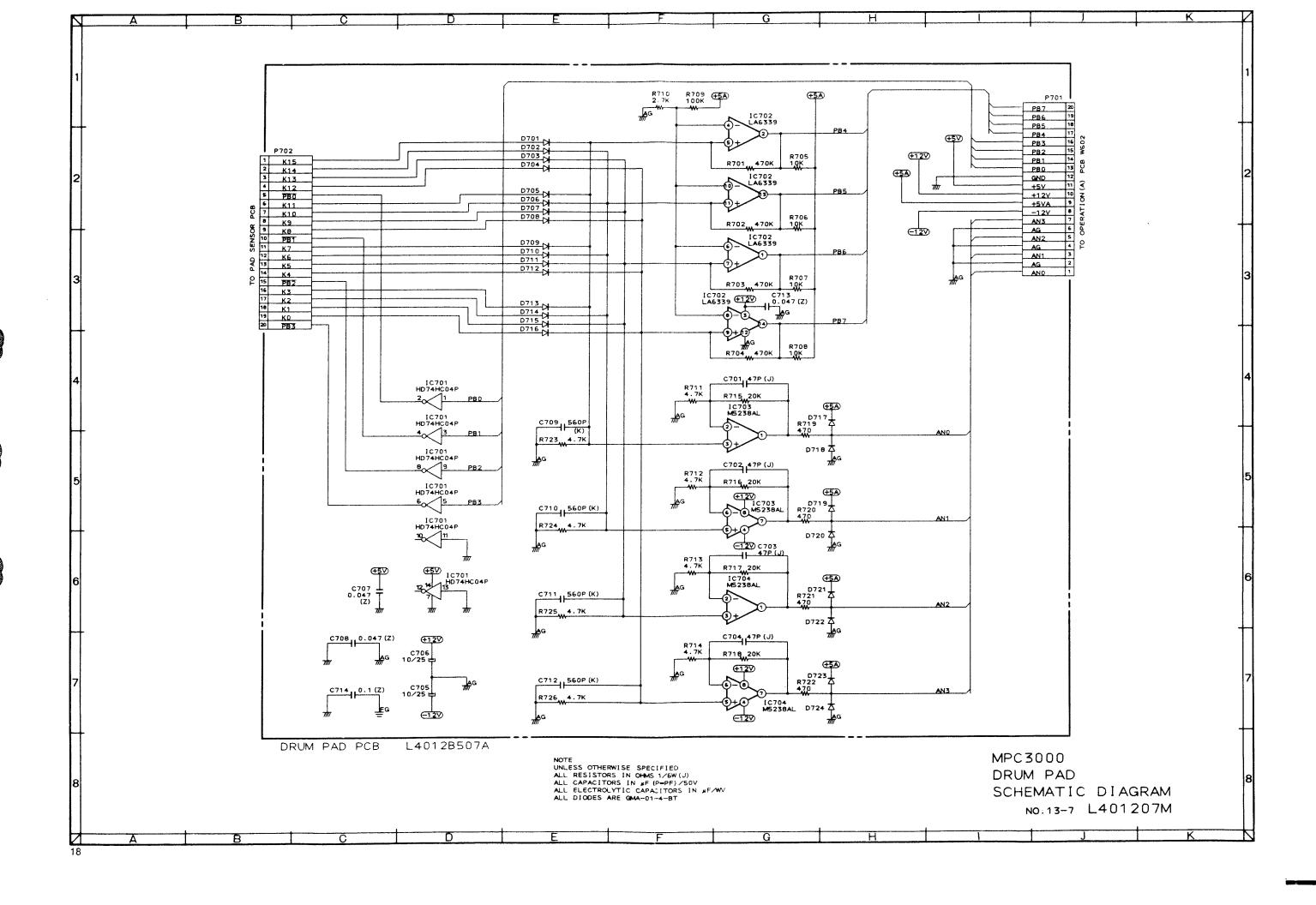
OPERATION(C) PCB L4012A506C

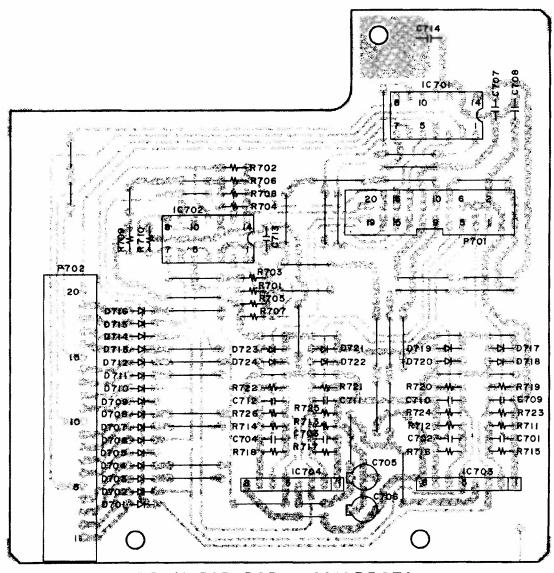


SCSI JACK PCB L4012A506E

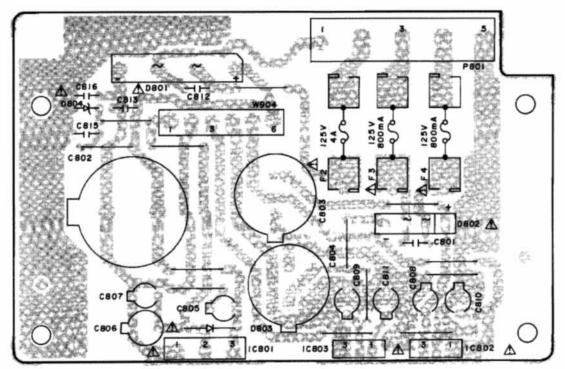


OPERATION(B) PCB L4012A506B





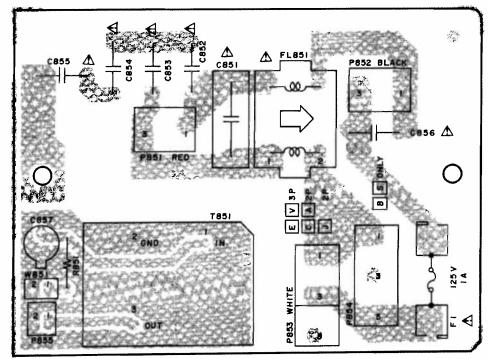
DRUM PAD PCB L4012B507A



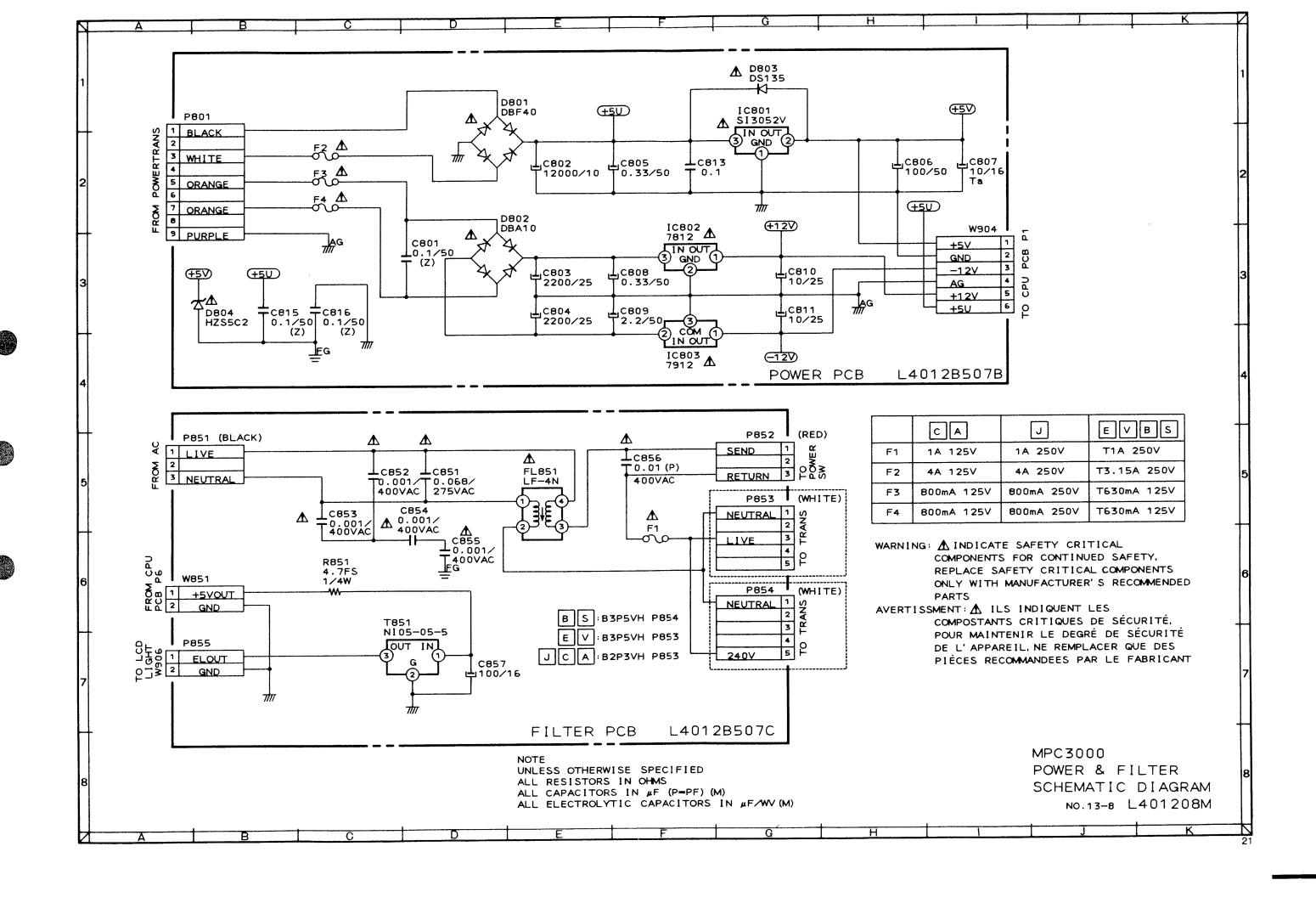
POWER PCB L4012B507B

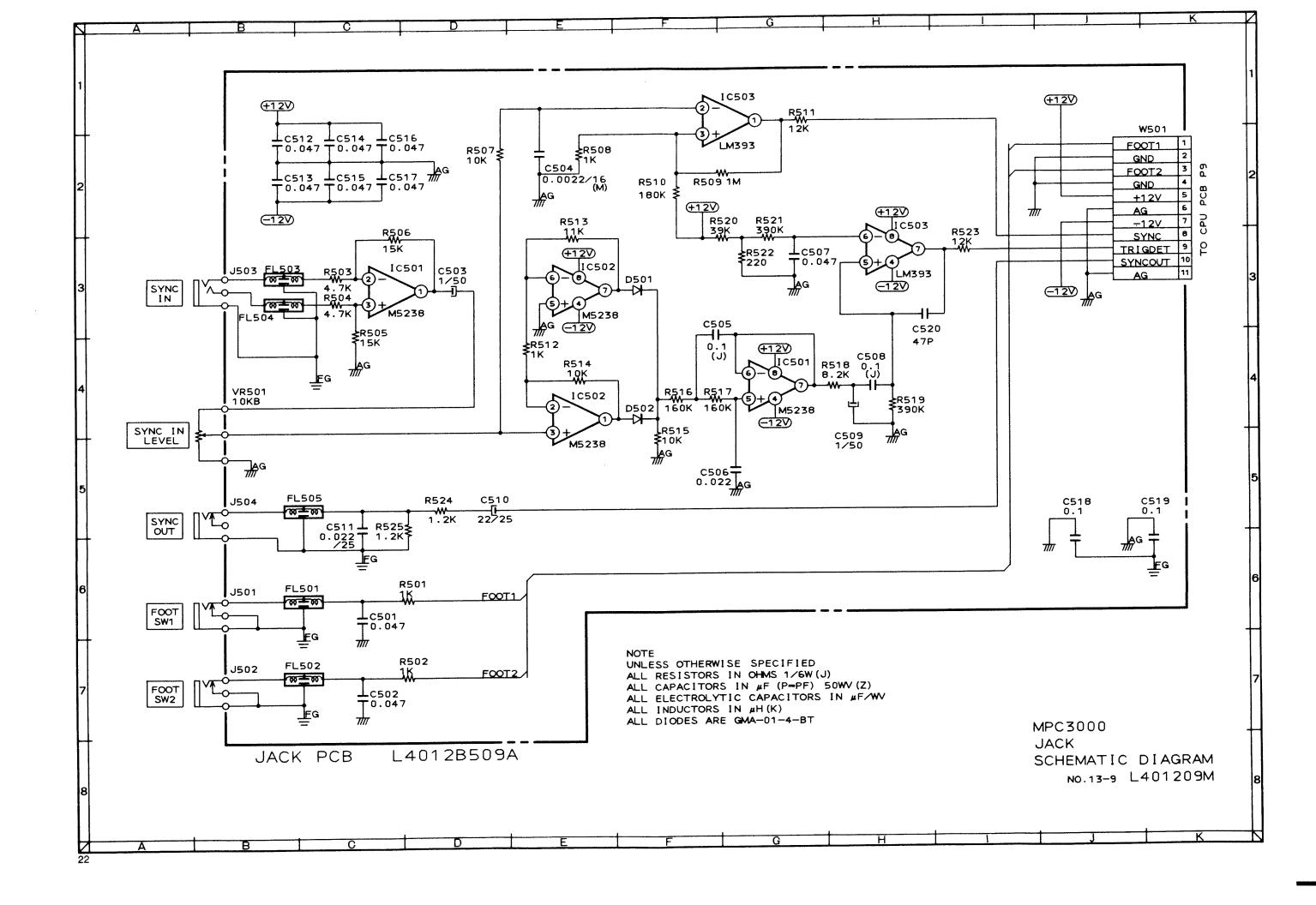
WARNING: AINDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

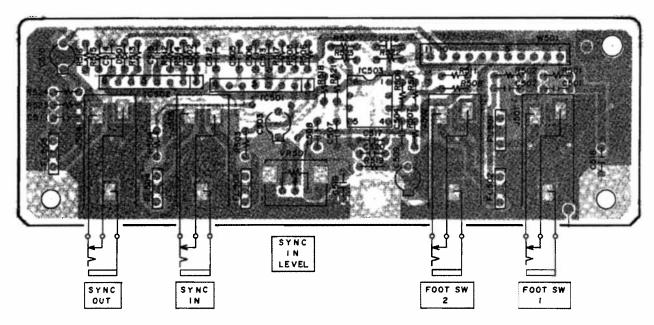
AVERTISSEMENT: ΔIL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT



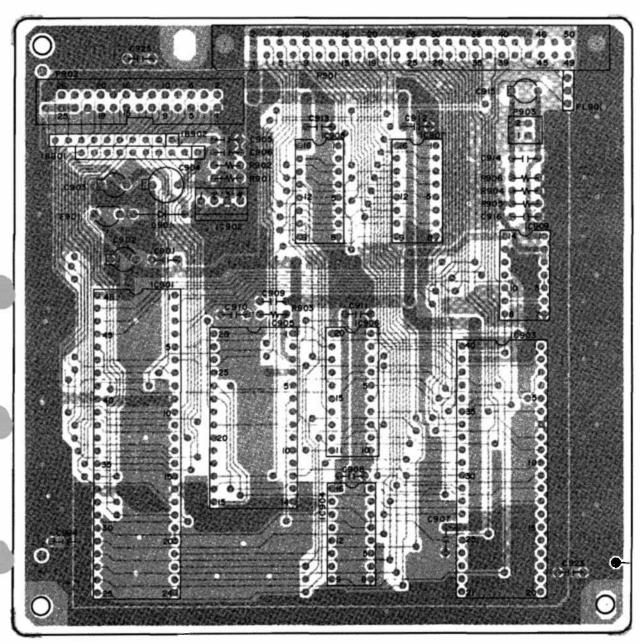
FILTER PCB L4012B507C



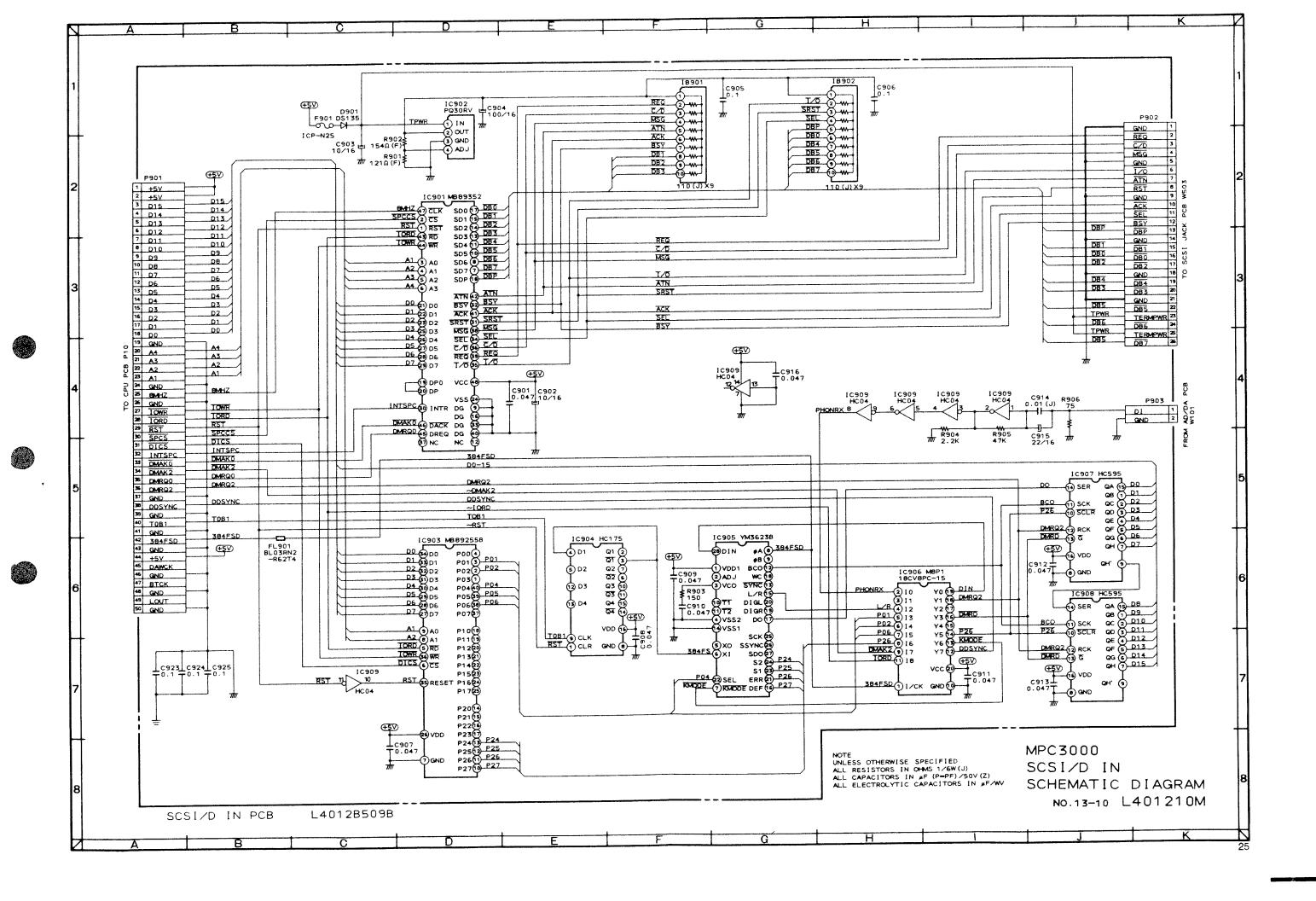


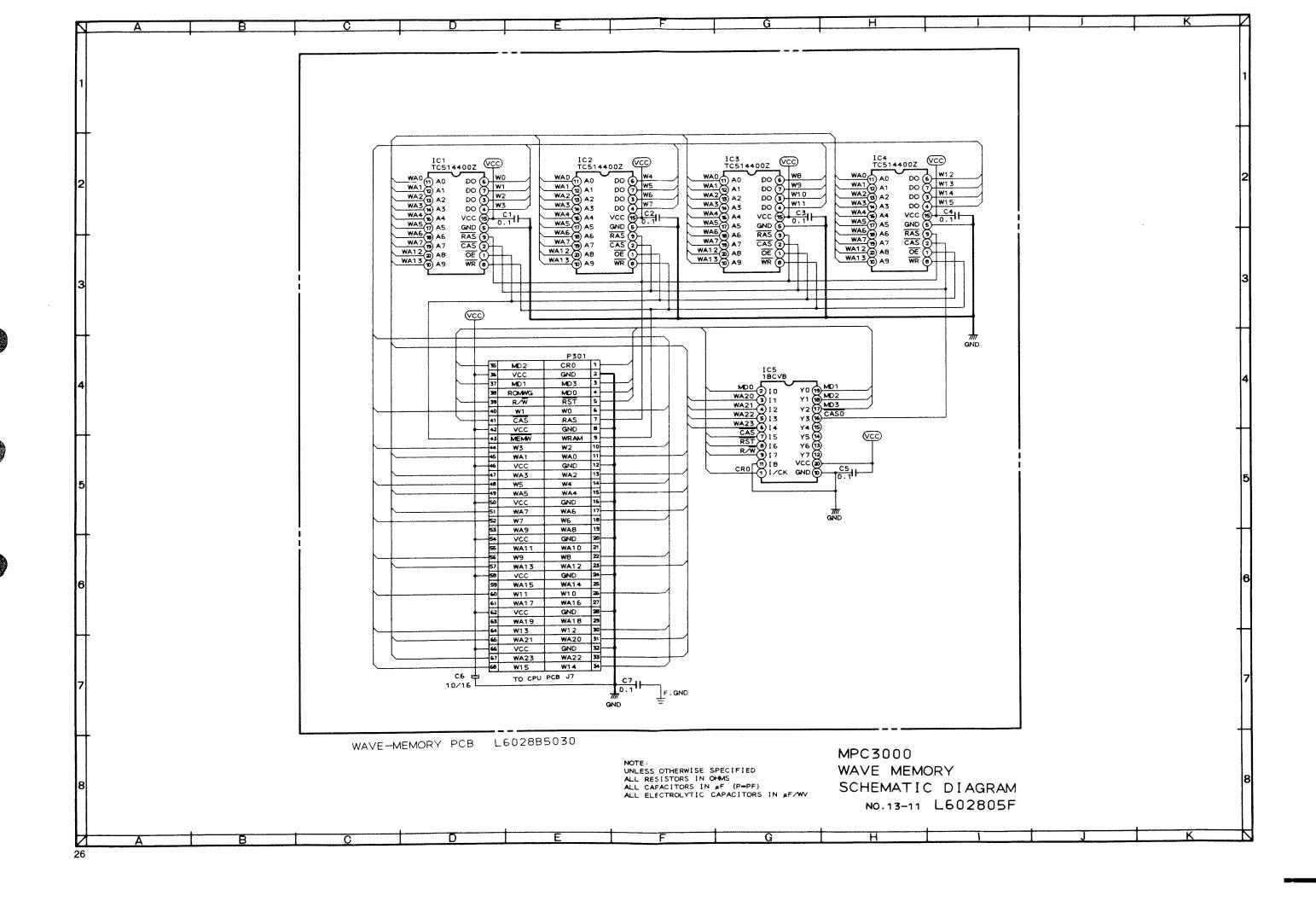


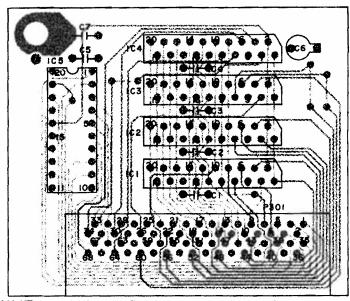
JACK PCB L4012B509A



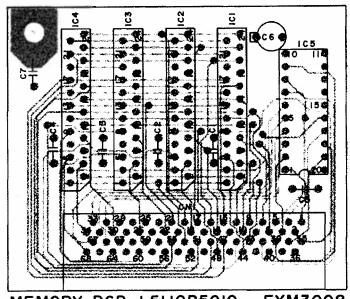
SCSI/D IN PCB L4012B509B



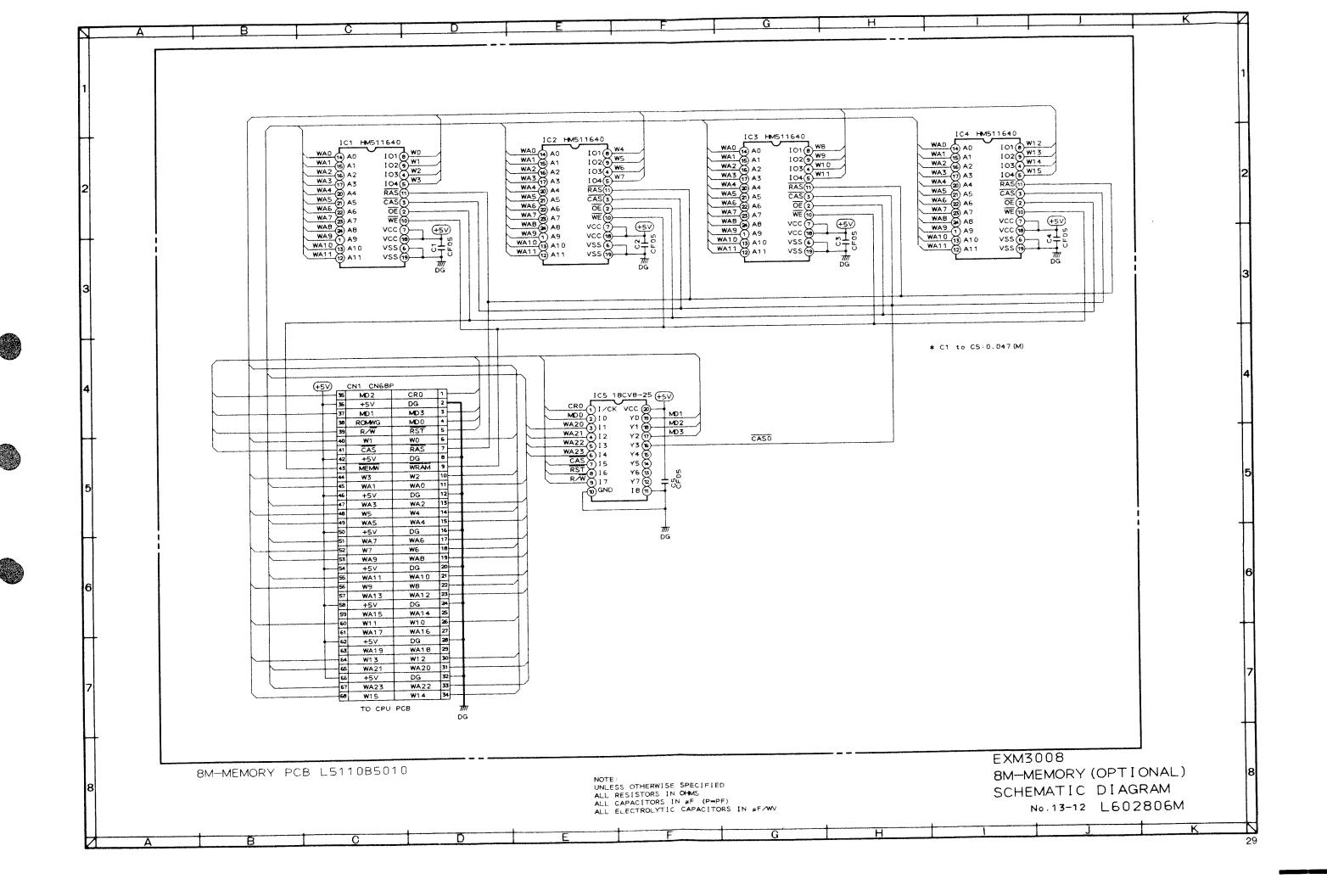


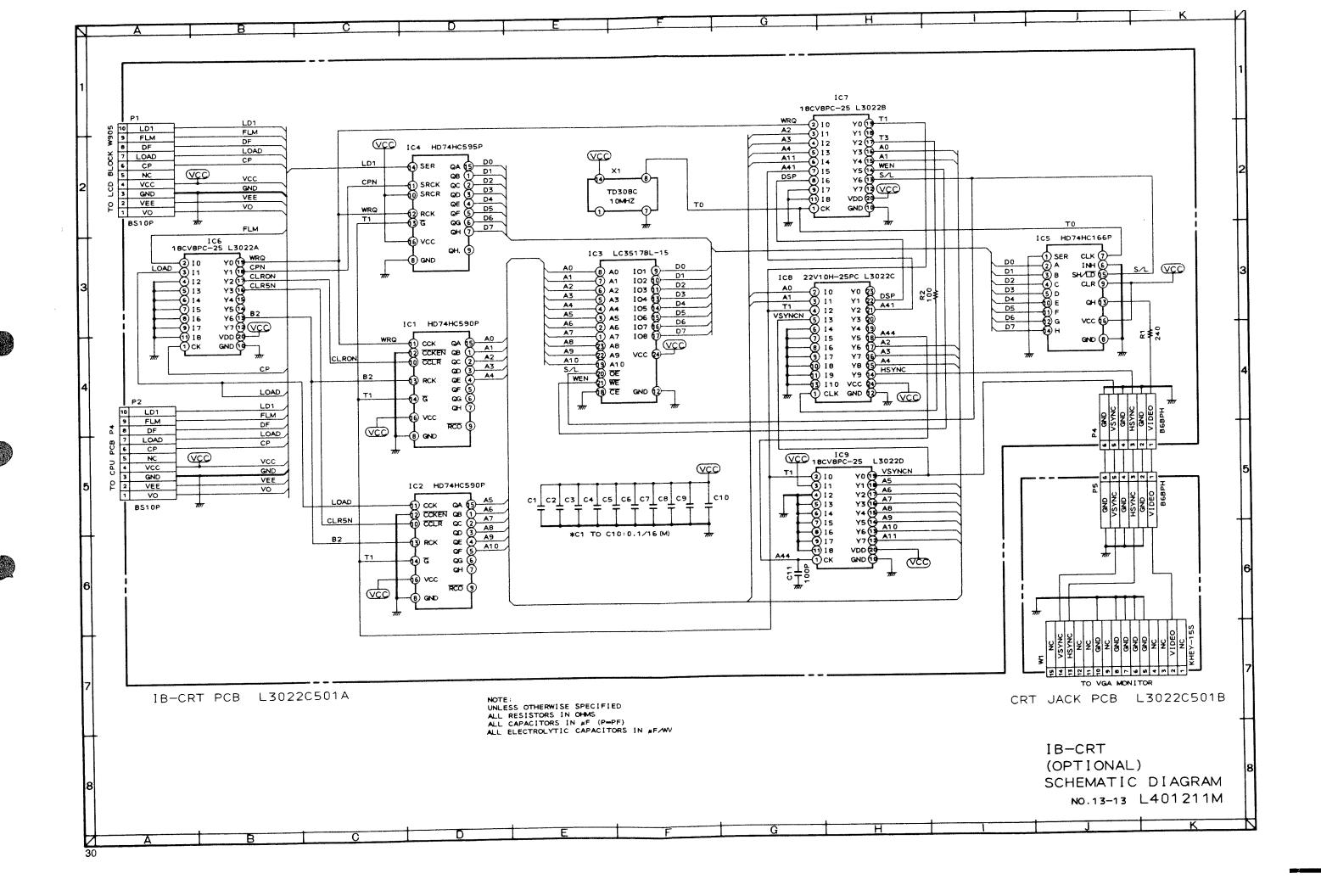


WAVE-MEMORY PCB L6028B5030



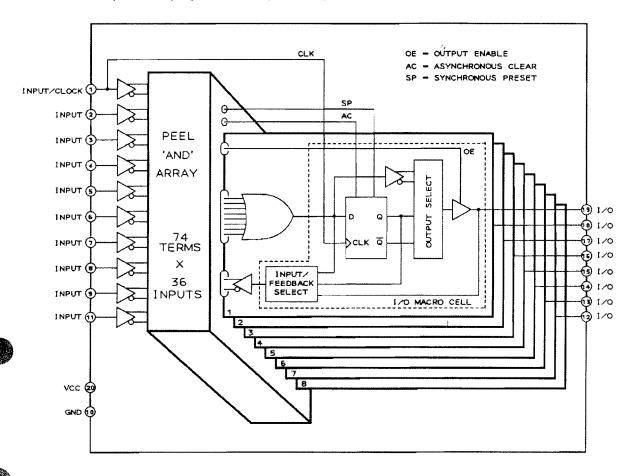
8M-MEMORY PCB L5110B5010 EXM3008 (OPTIONAL BOARD)



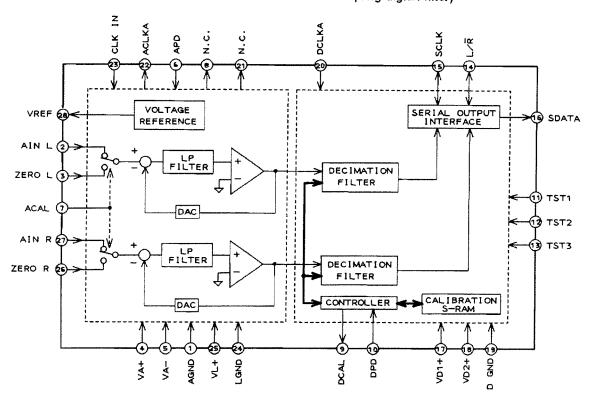


INFORMATION OF ICs

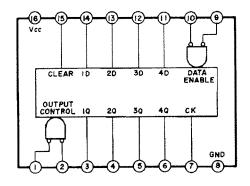
NAME OF IC	FUNCTION
AK5328-VP	18 bit stereo A/D converter with 64 fs over-sampling digital filter
AM27C020-150DC	2 Mbit CMOS EP-ROM
AM27C256-150DC	256 k bit E-P ROM
HD74AC00P	Quad 2 input NAND gate
HD74AC86P	Quad exclusive OR gate
HD74HC00P	Quad 2 input NAND gate
HD74HC02P	Quad 2 input NOR gate
HD74HC04P	Hex inverter
HD74HC08P	Quad 2 input AND gate
HD74HC32P	Quad 2 input OR gate
HD74HC138P	3 to 8 line decoder
HD74HC155P	Dual 2 to 4 line decoder/De-multiplexer
HD74HC173P	3 state quad D type Flip-Flop
HD74HC175P	Quad D type Flip-Flop with clear
HD74HC245P	Octal 3 state transceiver
HD74HC259P	8 bit addressable latch/3 to 8 line decoder
HD74HC365P	Hex 3 state buffer
	3 state octal D-type latch
HD74HC573P	8 bit shift registers with output latches
HD74HC595P	1 M X 4 bit RAM
HM514400BZ-8	524,288 word X 8 bit C-MOS static RAM
HM658512LP-85	SMPTE timecode reader
I-0055	
L7A1045 L6028 DSP-A	18 bit Digital signal processor
LA6339	Quad comparator
LC3517BSL-15	2048 word X 8 bit static RAM
LC7981	Dot matrix type LCD controller
LM393N	Low offset voltage dual comparator
LM2940CT-5.0	+5 V regulator
M5216L	High output level OP-AMP
M5220L	Dual low noise PRE-AMP
M5238AL	Dual low noise J-FET input OP-AMP
M51953BL	Reset pulse generator
M51955BL	Reset pulse generator
MB89254	Triple programmable counter
MB89255B-P-G	Parallel data I/O interface
MB89352A-P-G	SCSI protocol controller
NJM5532D-D	Low noise dual OP-AMP
NJM78L05A	+5 V regulator
NJM7805FA	+5 V regulator
NJM7812FA	+12 V regulator
NJM7905FA	-5 V regulator
NJM7912FA	-12 V regulator
PCM69AP-4	18 bit serial input D/A converter
PQ30RV1	Variable regulator (2.85 V in MPC3000)
SI3052V	+5 V regulator
SM5841HP	18 bit input 8 fs over-sampling digital filter
µPC812C-AK	Dual low drift J-FET input OP-AMP
μPD78C10AGQ-36	16 bit micro processor
µРD70236GD-16	16 bit micro processor
μPD72069GF-3BA	FDD controller
TC74HC4072AP	Dual 4 input OR gate
TE7774	4-ch BUS transceiver
	Receiver for Digital audio interface formatted signal
YM3623B	E ² C-MOS programmable logic device
18CV8PC-15	E²C-MOS programmable logic device
18CV8PC-25	E-0-MOS blogiammania indic device



AK5328-VP (18 bit stereo A/D converter with 64 fs over-sampling digital filter)



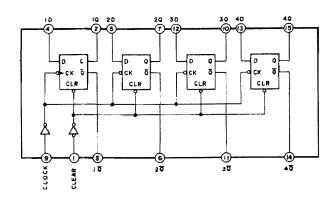
HD74HC173P (3 state quad D type Flip-Flop)



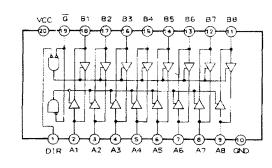
TRUTH TABLE

		INF	יטי .			!	1	
CLEAR CK		ENABLE		OUTPUT CONTROL		OUTPUT Qa ~ Qo	OPERATION	
CLEAR	CK	G1	G2	м	N			
L		L	L	_	_	1D ~ 4D	DATA SET	
L	IJ	Н	х	_			HOLD	
_		х	н	! !				
九	x	х	x	-	-	LLLL	CLEAR	
				н	х	z		
		•		х	н	2	_	

HD74HC175P (Quad D type Flip-Flop with clear)



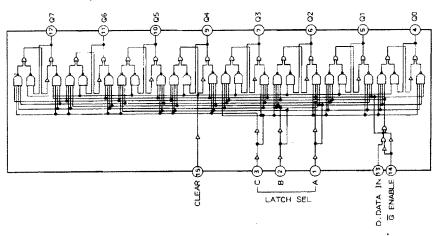
HD74HC245P (Octal 3 state transceiver)

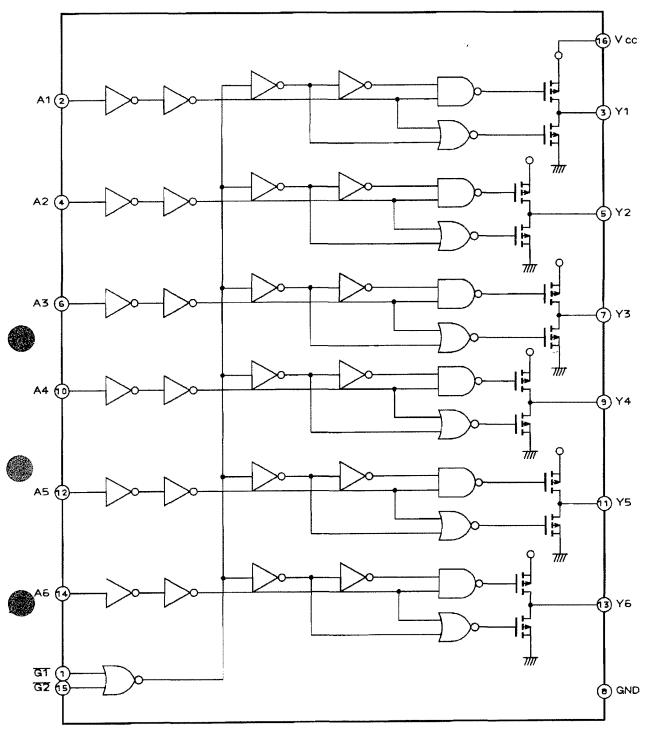


FUNCTION TABLE

	TROL UTS	OPERATION
G	DIR	GERATION
L	L	B DATA TO A BUS
L	н	A DATA TO B BUS
H	×	ISOLATION

HD74HC259P (8 bit addressable latch/3 to 8 line decoder)

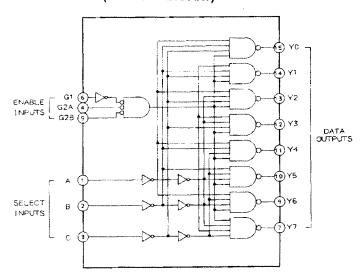




TRUTH TABLE

	NPUT	OUTPUT	
G1	G2	Α	Y
Н	×	×	Z
X	Н	X	Z
L	L	L	L
L	L	Н	Н

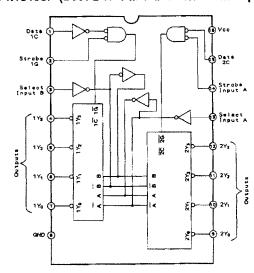
HD74HC138P (3 to 8 line decoder)



TRUTH TABLE

	INPUTS							ent Pre	~			1
ENA	BLE	SE	LEC	т		OUTPUTS						
G1	G2	С	В	Α	YO	Y1_	<u>Y2</u>	Y3	Y4	Y5_	YE	Y7
×	н	×	X	×	н	۲	Н	Н	Η	Н	Η	н
L	н	×	×	×	н	н	-	Н	H	Н	Н	н
н	L	L	L	L	_	н	н	Н	н	Н	۲	H
н	L	L	_	н	н	L	h	н	Н	Н	H	F1
X	н	×	×	×	н	Н	L	Н	Ħ	н	Η	H
н	L	L	н	L	н	Н	H	Ĺ	4	н	Н	H
н	l,	L	н	н	н	Н	Н	Н	L	Н	H	H
н	L	н	L	L	H	Н	H	Н	H	L	Н	н
н	-	н	H	L	Н	н	-	Н	Н	7	_	H
н	L.	н	н	h	 	Н	7	Н	н	н	Н	Ł

HD74HC155P (Dual 2 to 4 line decoder/De-multiplexer)

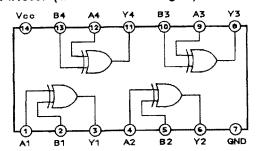


TRUTH TABLE

	Inputs				Out	puts	
Sel	ect	Strobe	Data	1 Y ₀	1 Y ₁	1 🗸	1٧_
В	Α	1 G	1C	' '0	1 79	1 Y ₂	1 Y ₃
×	×	Н	×	Η	H	Η	Н
L	L	L	Н	L	H	Ι	Н
L	Н	L	H	Н	L	Н	Н
Н	L	L	Н	Н	Н	١	Н
Н	Н	L	Н	Н	Н	Н	L
×	×	×	L	Н	Н	H	Н

	Inputs				Out	puts	
Se	ect	Strobe	Data	2Y0	2Y1	2Y2	2Y3
В	Α	2G	2C	2.10	211		213
×	×	Н	×	Н	Н	Н	Н
L	L	L	L	L	Н	H	Н
L	Н	L	L	Н	L	Ι	Η
Н	L	L	L	Н	Н	L	Н
Н	Н	L	L	Н	Н	Н	L
×	×	×	Н	Н	Н	Н	Н

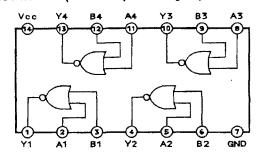
HD74AC86P (Quad exclusive OR gate)



TRUTH TABLE

INP	UTS	OUTPUTS
Α	В	Y
L	L	L
L	н	н
Н	L	Н
H	Н	L

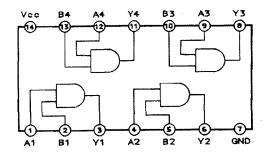
HD74HC02P (Quad 2 input NOR gate)



TRUTH TABLE

INP	UTS	OUTPUTS
АВ		Υ
Ĺ	L	н
L	н	L
н	L	L
Ιн	н	iL

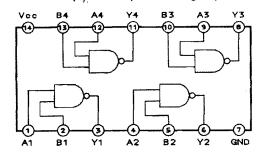
HD74HC08P (Quad 2 input AND gate)



TRUTH TABLE

INP	UTS	OUTPUTS			
Α	В	Y			
L	L	L			
L	Н	L			
Н	L	L			
Н	H	н			

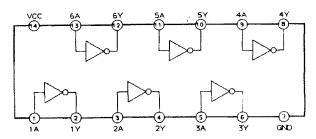
HD74HC00P (Quad 2 input NAND gate)



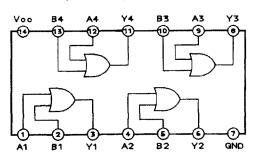
TRUTH TABLE

INP	JTS	OUTPUTS
Α	В	Y
L	Ļ	Н
L	н	н
Н	L	н
Н	I	L

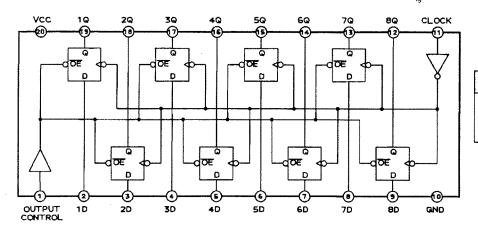
HD74HC04P (Hex inverter)



HD74HC32P (Quad 2 input OR gate)



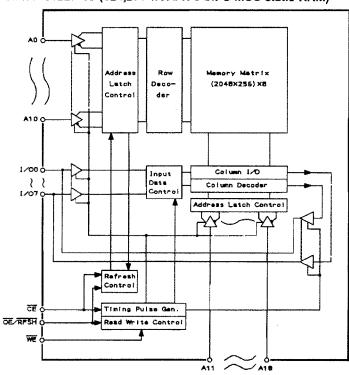
HD74HC573P (3 state octal D-type latch)

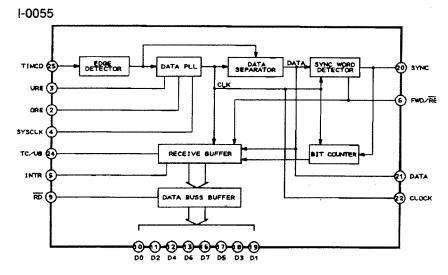


TRUTH TABLE

OUTPUT CONTROL	LATCH ENABLE	DATA	OUTPUT
L	н	π	Η
L	н	L.	L
L	L.	X	Q٥
н	×	X	Z

HM658512LP-85 (524,288 word X 8 bit C-MOS static RAM)

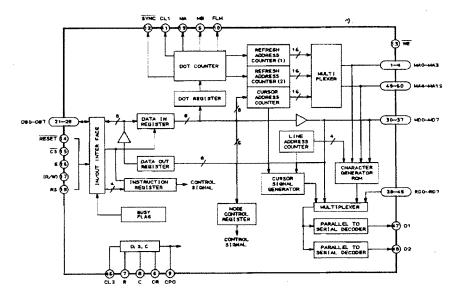




I-0055 (SMPTE timecode reader)

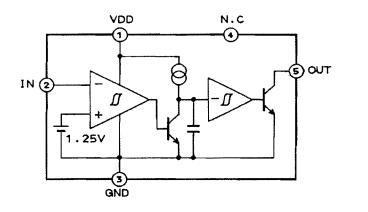
PI	N No.	SYMBOL	FUNCTION '						
1	1, 15	GROUND							
1	4, 28	Vcc	-5VDC						
	2	ORE	Internal Re	gister Over	flow				
	3	URE	Internal Re	gister Unde	rflow				
	4	SYSCLK	Input for sy	stem clock	-To 10 MHz				
	5	INTR	Active whe	n a new Tir	ne Code Word has been stored in the internal buffer.				
	6	FWD/REV	Tape Direct HIGH = FV LOW = RE	VD	or				
	7	AO	Output Wo	rd Select-Se	lects which word is presented to Data Output 00-07				
İ	8	Al	A 0	A 1	Output Word Selected				
			0 1 0	0 0 1 1	Frame Seconds Minutes Hours				
	9	RD	Output Ena	ble-Data is	available at Data Outputs 00-07 when RD is active.				
	10	D0	Data Output 0						
	11	D2	Data Output 2 Data Output 4						
	12	D4							
	13	D6	Data Outpu						
	16	D7	Data Output 7						
	17	D5	Data Output 5						
	18	D3	Data Output 3						
	19	DI	Data Outpu	Data Output 1					
	20	SYNC	Outputs a pulse two clock periods wide when the Time Code SYNC word has been read completely.						
	21	DATA	Serial NRZ	ut, Format:NRZ 1 Level: TTL					
	22	CLOCK	Time Code	Clock [cloc	k rate derived from Time Code]				
	23	TESTEN	IGH for normal operation						
	24	TC/UB	Time code or User Bits select Input HIGH = Time Code LOW = User Bits						
	25	TIMCO	Longitudinal Time Code Input at TTL levels						
	26	TEST B	Test Input B-Must be HIGH for normal operation						
	27	TEST A	Test Input A-Must be HIGH for normal operation						

PIN No.	PORT NAME	1/0	FUNCTION
1,15,25,30,31,44			
60,61,71,81,90,91	Vdd		+5 V power supply pin.
100,111,120			
2	LSIGN	ı	Chip select input.
3~5	CA3~CA1	ī	Host CPU address bus.
6,16,27,35,45,54	Vss		To be grounded.
62,75,88,106,110			·
7~14,17~24	C15~C0	1/0	Host CPU, DMA data bus.
26	DMARQF	0	DMA request output (High active).
28	DMAKFN	ı	DMA acknowledge input (low active).
29	TEST	ı	To be used for function test.
32	IOGN	I	Host CPU, DMA read input (low active).
33	IOWN	i i	Host CPU, DMA write input (low active).
34	RST	ı	System reset signal input (low active).
36	RDYFN	0	Host CPU read/write ready output (low active)
37	ROUT	0	Serial data output for D/A converter
38	LOUT	0	Serial data output for D/A converter and digital audio transmitter.
39	LRWDKN	0	DAC word clock output for left-mix and right-mix.
40	123WDKN	0	DAC word clock output for individual 2 and 3.
41	101WDKN	0	DAC word clock output for individual 0 and 1.
42	BTCK	0	Data catch clock output for DAC and digital audio transmitter.
43	DAWDK	0	Word clock output for digital audio transmitter.
46~53,63~70	A23~A0	0	Address outputs for the wave memory (RAM/ROM).
72~74,76~80			
55	ZTN		test pin for tri-state test. (Connect to Vdd in normal condition.)
56~59	TA0~TA3		Input pin for the function test. (Connect to the Vss in normal condition.)
82	CASN	0	Column address strobe output for the wave memory (RAM) (low active).
83	RASN	0	Row address strobe output for the wave memory (RAM) (low active).
84	MEMWGN	0	Output enable out for the wave memory. (low active)
85	WRAMWN	ō	Read/write output for the wave memory. (low active)
86	ROMWGN	0	Chip enable output for the wave memory (ROM). (low active)
87	TEST OUT	0	Output pin for parametric test. (Open in normal condition.)
89	TG	i	Input pin for the function test.
92~99,101~105	W0-W15	1/0	Data bus for the wave memory.
112~114			•
107	CLK	1	System clock input (768 times of the sampling-rate).
108	UOIN	T i	Serial data input for the second LSI.
109	U1IN	<u> </u>	
115	U0OUT	0	Serial data output for the second LSI.
116	U1OUT	<u> </u>	
117	USYNC	0	Sync signal output for the second LSI.
118	RSTON	0	System reset output for the second LSI.
119	ToB1	0	System clock output for the second LSI.

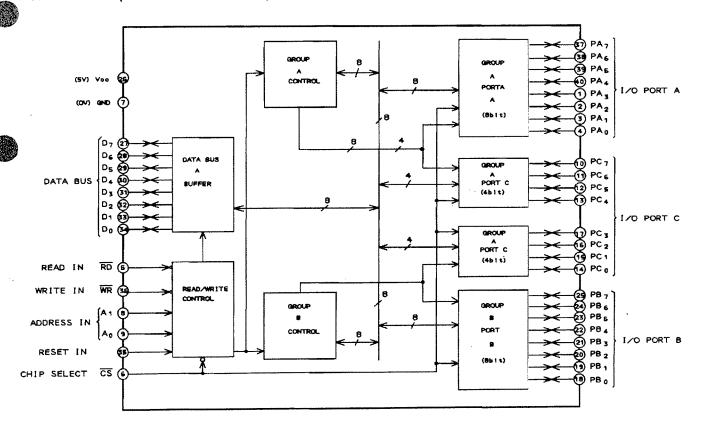


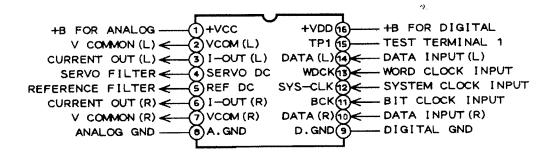
PIN No.	SYMBOL	FUNCTION
1 to 4	MA 0 to 15	Display RAM address out
49 to 60		
5	мв	LCD drive signal (B type)
6	С	
7	R	CR connect pin for osc
8	CR	
9	CPO	Slave clock
10	FLM	Frame signal
11	CL 1	Display data latch signal
12	SYNC	Parallel drive sync
13	WE	Write enable
14	RESET	Reset
15	CS	Chip select
16	E	Enable
17	R/W	Read/Write
18	RS	Register
19	MA	LCD drive signal (A type)
20	GND	Ground
21		
to	DB 0 to 7	Data bus
28		
29	VDD	+ 5 V
30		
to	MD 0 to 7	Display data bus
37		
38		
to	RD 0 to 7	ROM data in
45		
46	CL 2	Display data shift clock
47	D1	Display data serial out D1 Upper frame
48	D2	D2 Lower frame

M51955BL (Reset pulse generator)



MB89255B-P-G (Parallel data I/O interface)





M5841HP (18 bit input 8 fs over-sampling digital filter)

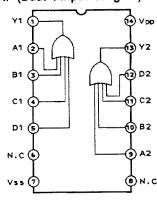
	PIN No.	No. PORT NAME 1/0		FUNCTION			
	1,6*	WSL1~2		IN/OUT data word length select pin.			
	2	CKI	ı	System clock input.			
i	3	CKSL		System clock select control (H : 384 fs, L : 256 fs).			
	4 .	СКО	0	System clock output pin (Bufferred output of CKI).			
	5	Vss		To be grounded.			
	7,8*	DSF1~2		De-emphasis select control.			
	9	RST		System reset pin.			
	10	BCKO	0	Bit clock output.			
	11	DOR	0	R-ch 8 fs data output.			
	12	DOL	0	L-ch 8 fs data output.			
	13	WCKO	0	Word clock output.			
	14	Vdd		+5 V power supply pin.			
	15	OFST	I	DC off-set adding pin to the output data.			
	16	LRCI	١	Sampling rate (fs) clock of the input data.			
	17	BCKI	1	Input bit clock.			
	18	DIN	ĺ	Input data.			

*NOTE

Settir	ng	Noise shaper	IN/OUT data word length		
WSL1	WSL2		input bit number	output bit number	
Н	Н	OFF	18 bit_	20 bit	
H	Ļ	ON	18 bit	18 bit	
Ļ	Н	ON	16 bit	18 bit	
L	L	ON	16 bit	16 bit	

Sett	ing	De-emphasis		
DSF1	DSF2	ON/OFF selection	fs selection	
L	L	ON	44.1 kHz	
L	Н	ON	48.0 kHz	
Н	Н	ON	32.0 kHz	
Н	L	OFF	-	

TC74HC4072AP (Dual 4 input OR gate)



YM3623B (Receiver for Digital audio interface formatted signal)

PIN No.	PORT NAME	1/0	FUNCTION		
1	Vdd1		+5 V power supply pin for system.		
2	ADJ	ı	VCO oscillating frequency adjusting pin.		
3	VCO	1/0	Capacitor connecting pin for the VCO circuit.		
4	Vss2	_	Ground pin for the VCO circuit.		
5	XO	0	Crystal connecting pin.		
6	ΧI	ı			
7	KMODE	-	H: PLL circuit will operate when DIN pin receives input signal. System uses crystal		
			oscillator when DIN pin has no input signal.		
			L: System uses crystal oscillator whichever DIN pin receives signal or not.		
8	ΦА	0	16.9344 MHz output (when the crystal oscillator is used). Output frequency varies		
ı			according to the DIN input when the PLL circuit is operating.		
9	ΦВ	0	1/3 frequency of the ΦA (when the crystal oscillator is used). Output frequency varies		
			according to the DIN input when the PLL circuit is operating.		
10,11	T1,T2		Internal circuit check pins.		
12	BCO	0	Timing clock for the output signal from DO pin.		
13	SYNC	0	Synchronization signal.		
14	Vss1	0	Ground pin for system.		
15	L/R	0	Identification signal between L-ch and R-ch. (H:L-ch, L:R-ch)		
16	DEF	0	H indicates that the input data is emphasised.		
			L indicates that the input data is not emphasised.		
17	DO	0	16 bit data output.		
18	WC	0	This pin indicates that the output data is being output from the DO pin.		
19	DIGR	0	signal out for R-ch deglitching.		
20	DIGL	0	signal out for L-ch deglitching.		
21	ERR	0	H indicates parity error or crystal oscillator is operating. L indicates there is no error.		
22	SEL	ı			
23	S1	0	Refer to the "NOTE"		
24	S2	0			
25	SCK	0	Clock out for subcode output.		
26	SSYNC	0	Signal for subcode.		
27	SDO	0	Subcode data output pin.		
28	DIN		Data input pin.		

*NOTE : Relations between the SEL, S1 and S2

INPUT	OUTPUT		OUTPUT		
SEL	S1	Function	S2	Function	
L	L.	Copy prohibited	L	CD (except DAT)	
	Н	Copy possible	Н	DAT	
	L		L	The sampling frequency of the DIN signal is 44.1 kHz	
Н	L		Н	48 kHz	
	Н		Н	32 kHz	
	Н		L		

μPD72069GF-3BA (FDD controller)

PIN No.	PORT NAME	1/0	FUNCTION	
1,3,15,17,19			*	
25,28,29,44,	NC	_	No Connection.	
52~54,64,66,				
77,79,84,88,			•	
2,6,9,12,37,40	GND3	_	Ground 3	
61,81,92,95,98			Ground o	
4,5,7,100	EM0~3	0	Enable Motor.	
8	DIR	ō	Direction.	
10	STEP	ō	Step.	
11	WDATA	0	Write data.	
13	WE	0	Write Enable.	
14	ENIDX	Ť	Enable Index.	
16	VDD2	<u> </u>	+5 V.	
18,20	CGP1,2	0	Charge Pump.	
21	GND2	_	Ground 2.	
22,23	LPF1,2	0	Low Pass Filter.	
24	TRKO	Ť	Track 0.	
26	WPRT	+	Write Protected.	
27	RDATA	-	Read Data,	
30	READY			
31			Ready. Two Side.	
	2SIDE	1		
32	FLT	1	Fault.	
33	ENPCS		Enable Pre-Compensation.	
34	ACTL	1	Active Level.	
35	MSEL	<u> </u>	Mode Select.	
36	SIDE	0	Side Select.	
38	FLTR	0	Fault Reset. Head Load.	
39	HDLD	0		
41	LCT	0	Low Current.	
42,43	VDD1	-	+5 V.	
45	RESET	1	Reset.	
46	RD	1	Read.	
47	WR	1	Write.	
48	ENRW	-	Enable Read, Write.	
49	RSEL		Registers Select.	
50	CS	1	Chip Select.	
51	A0 CND1		Address 0.	
55,56,85,89,90	GND1	-	Ground 1.	
57~60	D0~D7	1/0	Data Bus.	
62,63,65,67	DVADO		DMA D	
68	DMARQ	0	DMA Request.	
69	DMAAK		DMA Acknowledge.	
70	TC	-	Terminal Count.	
71	INT	0	Interrupt Request.	
72	FMT		Format.	
73~75	DR0~DR2	 	Data Rate.	
76	INDEX	1	Index.	
78,80	PCS0,PCS1	1	Pre-Compensation.	
82,83	XA1,XA2		Crystal A connecting terminals.	
86,87	XB1,XB2		Crystal B connecting terminals.	
91,93	DENO,DEN1	0	Density.	
94,96,97,99	DS0~DS3	0	Drive Select.	